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2023 Medium Duty Chassis Cabs

Specs

Key product specifications include vehicle dimensions and capacities, detailed powertrain information, transmission gear ratios and more.

2023 Medium Duty Chassis Cabs > Specs

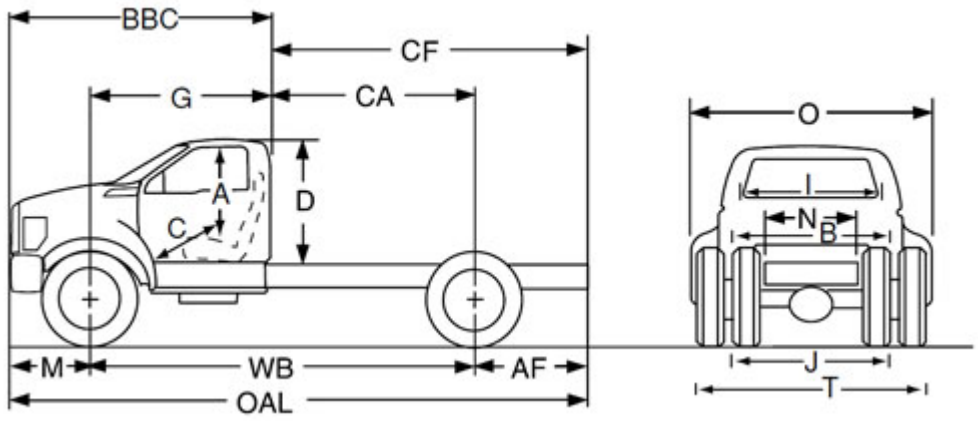
Dimensions/Weights/Capacities

Accessory Reserve Capacity (ARC) Calculation
Base Curb Weight
F-650 Straight Frame — Air Brakes
F-650 Straight Frame — Hydraulic Brakes
F-750 Straight Frame — Air Brakes
F-750 Straight Frame — Hydraulic Brakes
Fuel Tank Capacity
Gross Axle Weight
Gross Axle Weight Rating (GAWR)
Gross Combination Weight (GCW)
Gross Combination Weight Rating (GCWR)
Gross Vehicle Weight (GVW)
Gross Vehicle Weight Rating (GVWR)
Maximum Payload Weight Rating
Maximum Payload Weight Ratings
Option Weights
Passenger Weight
Payload
Pro Loader
Pro Loader
Pro Loader
Pro Loader
Straight Frame
Straight Frame
Straight Frame
Tongue Weight
Tractor
Tractor
Tractor
Tractor
Trailer Weight
Truck “Nominal Tonnage”
Vehicle Class Ratings by GVWR
Weight Distribution

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > Regular Cab Chassis

Pro Loader

Body Dimensions[1]



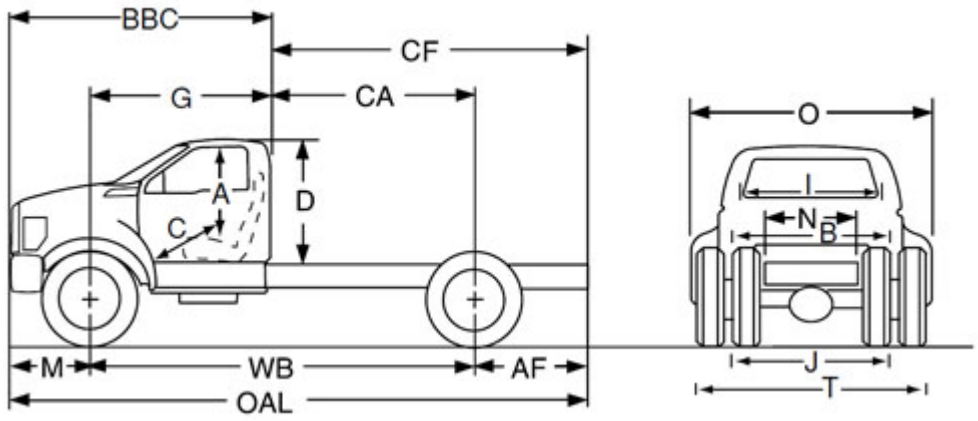
		Pro Loader				
Wheelbase (in.)		158.0	182.0	194.0	218.0	242.0
Code	Description					
CA	Back of Cab to C/L Rear Axle	84.0	108.0	120.0	144.0	168.0
AF	Axle to End of Frame	63.0	75.0	75.0	81.0	93.0
OAL	Overall Length	261.0	297.0	309.0	339.0	382.0
	Head Room	40.7	40.7	40.7	40.7	40.7
	Hip Room	67.6	67.6	67.6	67.6	67.6
	Max. Leg Room	41.4	41.4	41.4	41.4	41.4
D	Cab Height (without marker lights)	56.7	56.7	56.7	56.7	57.0
BBC	Front Bumper to Back of Cab	114.4	114.0	114.0	114.0	114.0
G	C/L Front Axle to Back of Cab	74.1	74.1	74.1	74.1	74.1
	Shoulder Room	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5"	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > Regular Cab Chassis

Straight Frame

Body Dimensions[1]



		Straight Frame					
Wheelbase (in.)		158.0	176.0	182.0	194.0	200.0	212.0
Code	Description						
CA	Back of Cab to C/L Rear Axle	84.0	102.0	108.0	120.0	126.0	138.0
AF	Axle to End of Frame	49.0	70.0	70.0	75.0	75.0	81.0
OAL	Overall Length	247.0	286.0	292.0	309.0	315.0	333.0
	Head Room	40.7	40.7	40.7	40.7	40.7	40.7
	Hip Room	67.6	67.6	67.6	67.6	67.6	67.6
	Max. Leg Room	41.4	41.4	41.4	41.4	41.4	41.4
D	Cab Height (without marker lights)	56.7	56.7	56.7	56.7	56.7	56.7
BBC	Front Bumper to Back of Cab	114.4	114.4	114.0	114.0	114.0	114.0
G	C/L Front Axle to Back of Cab	74.1	74.1	74.1	74.1	74.1	74.1
	Shoulder Room	68.0	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0	34.0
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5"	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

		Straight Frame					
Wheelbase (in.)		218.0	224.0	230.0	242.0	260.0	281
Code	Description						
CA	Back of Cab to C/L Rear Axle	144.0	150.0	156.0	168.0	186.0	207.0
AF	Axle to End of Frame	81.0	87.0	87.0	100.0	120.0	120.0
OAL	Overall Length	339.0	351.0	357.0	382.0	420.0	441.0
A	Head Room	40.7	40.7	40.7	40.7	40.7	40.7
B	Hip Room	67.6	67.6	67.6	67.6	67.6	67.6

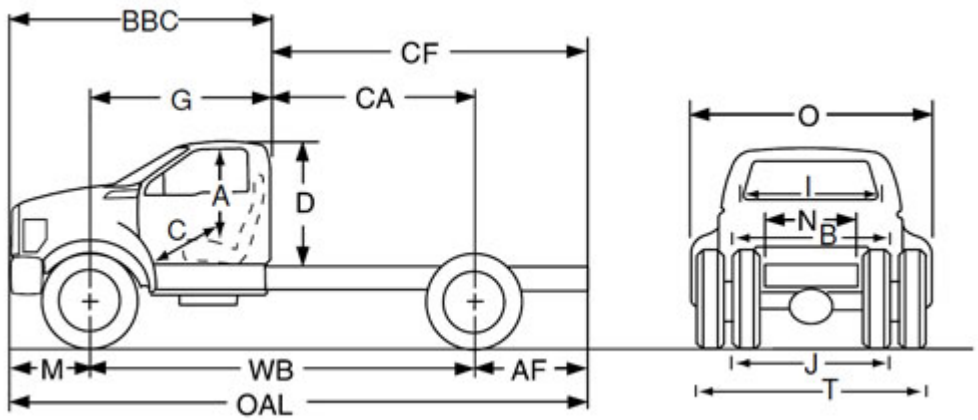
C	Max. Leg Room	41.4	41.4	41.4	41.4	41.4	41.4
D	Cab Height (without marker lights)	56.7	56.7	56.7	56.7	57.0	57.0
BBC	Front Bumper to Back of Cab	114.0	114.0	114.0	114.0	114.0	114.0
G	C/L Front Axle to Back of Cab	74.1	74.1	74.1	74.1	74.1	74.1
I	Shoulder Room	68.0	68.0	68.0	68.0	68.0	68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	—/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.0	34.0	34.0	34.0	34.0	34.0
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > Regular Cab Chassis

Tractor

Body Dimensions(1)



		Tractor	
Wheelbase (in.)		146.0	158.0
Code	Description		
CA	Back of Cab to C/L Rear Axle	72.0	84.0
AF	Axle to End of Frame	39.0	39.0
OAL	Overall Length	225.0	237.0
	Head Room	40.7	40.7
	Hip Room	67.6	67.6
	Max. Leg Room	41.4	41.4
D	Cab Height (without marker lights)	56.7	56.7
BBC	Front Bumper to Back of Cab	114.4	114.4
G	C/L Front Axle to Back of Cab	74.1	74.1

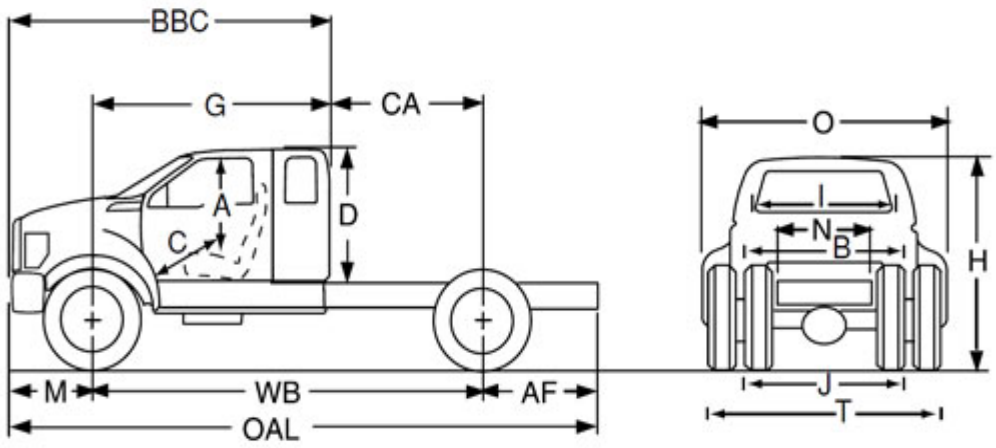
	Shoulder Room	68.0	68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	—/82.7	—/82.7
M	Bumper to Axle C/L	40.4	40.4
N	Width Between Frame Rails	34.0	34.0
O	Width Over Fenders	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5"	97.6/—	97.6/—

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > SuperCab Chassis

Pro Loader

Body Dimensions(1)



		Pro Loader		
Wheelbase (in.)		179.0	203.0	239.0
Code	Description			
CA	Back of Cab to C/L Rear Axle	84.0	108.0	144.0
AF	Axle to End of Frame	63.0	75.0	81.0
OAL	Overall Length	282.0	318.0	360.0
A	Head Room (Front/Rear)	40.7/38.1	40.7/38.1	40.7/38.1
B	Hip Room (Front/Rear)	67.6/67.3	67.6/67.3	67.6/67.3
C	Max. Leg Room (Front/Rear)	41.4/31.6	41.4/31.6	41.4/31.6
D	Cab Height (without marker lights)	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	135.4	135.4	135.4
G	C/L Front Axle to Back of Cab	95.0	95.0	95.0
I	Shoulder Room (Front/Rear)	68.0/68.1	68.0/68.1	68.0/68.1
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1

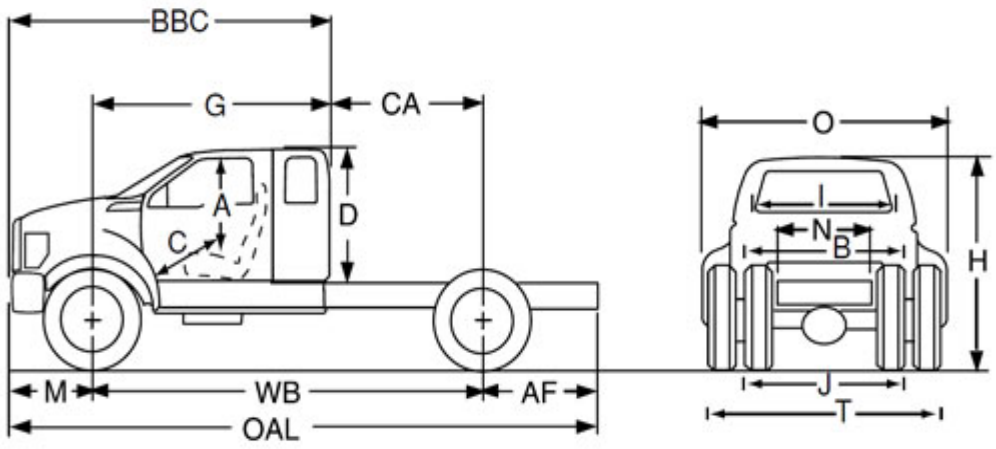
O	Width Over Fenders	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > SuperCab Chassis

Straight Frame

Body Dimensions(1)



		Straight Frame					
Wheelbase (in.)		179.0	197.0	203.0	215.0	221.0	233.0
Code	Description						
CA	Back of Cab to C/L Rear Axle	84.0	102.0	108.0	120.0	126.0	138.0
AF	Axle to End of Frame	49.0	70.0	70.0	75.0	75.0	81.0
OAL	Overall Length	268.0	307.0	313.0	330.0	336.0	354.0
A	Head Room (Front/Rear)	40.7/38.1	40.7/38.1	40.7/38.1	40.7/38.1	40.7/38.1	40.7/38.1
B	Hip Room (Front/Rear)	67.6/67.3	67.6/67.3	67.6/67.3	67.6/67.3	67.6/67.3	67.6/67.3
C	Max. Leg Room (Front/Rear)	41.4/31.6	41.4/31.6	41.4/31.6	41.4/31.6	41.4/31.6	41.4/31.6
D	Cab Height (without marker lights)	56.9	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	135.4	135.4	135.4	135.4	135.4	135.4
G	C/L Front Axle to Back of Cab	95.0	95.0	95.0	95.0	95.0	95.0
I	Shoulder Room (Front/Rear)	68.0/68.1	68.0/68.1	68.0/68.1	68.0/68.1	68.0/68.1	68.0/68.1
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1	34.1	34.1	34.1
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

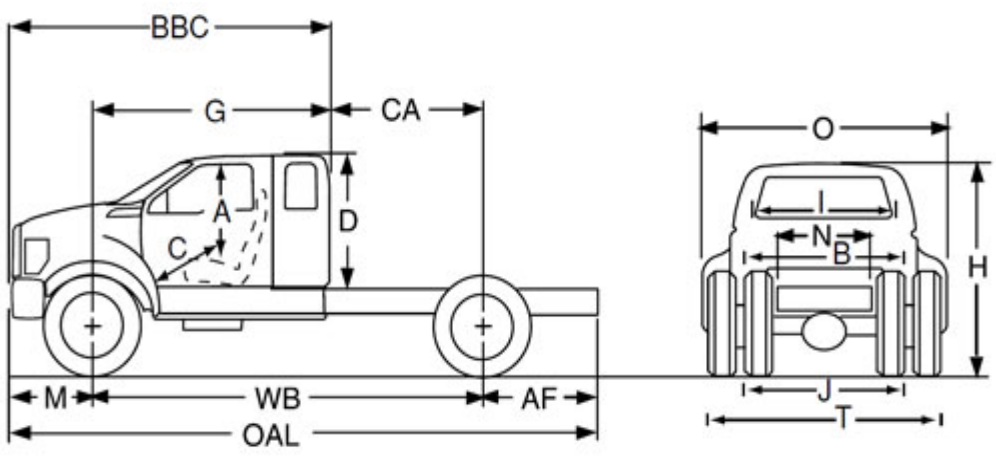
		Straight Frame				
Wheelbase (in.)		239.0	245.0	251.0	263.0	281.0
Code	Description					
CA	Back of Cab to C/L Rear Axle	144.0	150.0	156.0	168.0	186.0
AF	Axle to End of Frame	81.0	87.0	87.0	100.0	120.0
OAL	Overall Length	360.0	372.0	378.0	403.0	441.0
A	Head Room (Front/Rear)	40.7/38.1	40.7/38.1	40.7/38.1	40.7/38.1	40.7/38.1
B	Hip Room (Front/Rear)	67.6/67.3	67.6/67.3	67.6/67.3	67.6/67.3	67.6/67.3
C	Max. Leg Room (Front/Rear)	41.4/31.6	41.4/31.6	41.4/31.6	41.4/31.6	41.4/31.6
D	Cab Height (without marker lights)	56.9	56.9	56.9	56.9	56.9
BBC	Front Bumper to Back of Cab	135.4	135.4	135.4	135.4	135.4
G	C/L Front Axle to Back of Cab	95.0	95.0	95.0	95.0	95.0
I	Shoulder Room (Front/Rear)	68.0/68.1	68.0/68.1	68.0/68.1	68.0/68.1	68.0/68.1
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1	34.1	34.1
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > SuperCab Chassis

Tractor

Body Dimensions(1)



		Tractor	Tractor
Wheelbase (in.)		167.0	179.0
Code	Description		
CA	Back of Cab to C/L Rear Axle	72.0	84.0

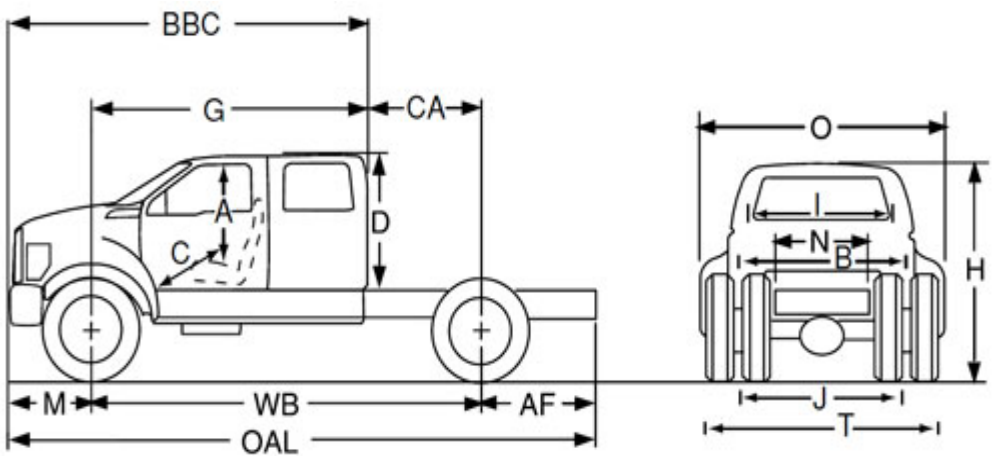
AF	Axle to End of Frame	39.0	39.0
OAL	Overall Length	246.0	258.0
A	Head Room (Front/Rear)	40.7/38.1	40.7/38.1
B	Hip Room (Front/Rear)	67.6/67.3	67.6/67.3
C	Max. Leg Room (Front/Rear)	41.4/31.6	41.4/31.6
D	Cab Height (without marker lights)	56.9	56.9
BBC	Front Bumper to Back of Cab	135.4	135.4
G	C/L Front Axle to Back of Cab	95.0	95.0
I	Shoulder Room (Front/Rear)	68.0/68.1	68.0/68.1
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	–/82.7	–/82.7
M	Bumper to Axle C/L	40.4	40.4
N	Width Between Frame Rails	34.1	34.1
O	Width Over Fenders	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/—	97.6/—

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > Crew Cab Chassis

Pro Loader

Body Dimensions(1)



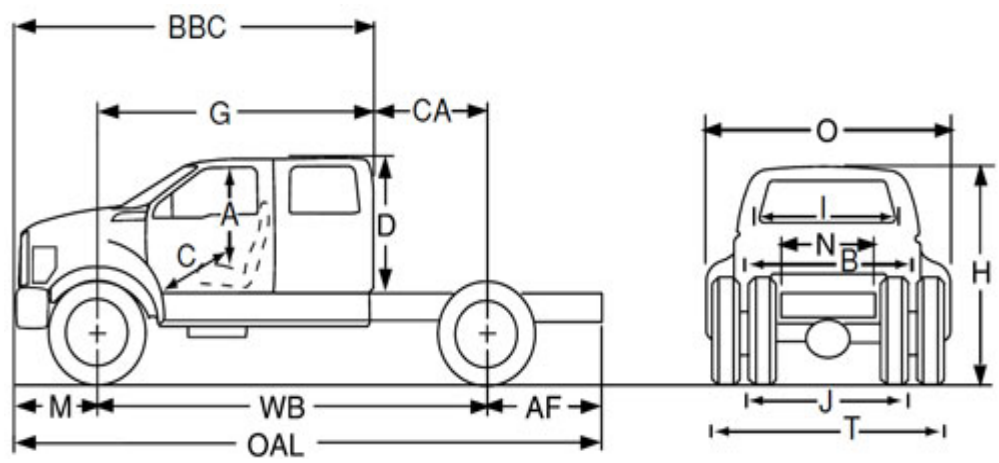
		Pro Loader		
Wheelbase (in.)		194.0	218.0	254.0
Code	Description			
CA	Back of Cab to C/L Rear Axle	84.0	108.0	144.0
AF	Axle to End of Frame	63.0	75.0	96.0
OAL	Overall Length	297.0	333.0	390.0
A	Head Room (Front/Rear)	40.7/40.8	40.7/40.8	40.7/40.8
B	Hip Room (Front/Rear)	67.6/67.6	67.6/67.6	67.6/67.6
C	Max. Leg Room (Front/Rear)	41.4/42.1	41.4/42.1	41.4/42.1

D	Cab Height (without marker lights)	57.4	57.4	57.4
BBC	Front Bumper to Back of Cab	149.9	149.9	149.9
G	C/L Front Axle to Back of Cab	109.5	109.5	109.5
I	Shoulder Room (Front/Rear)	68.0/68.0	68.0/68.0	68.0/68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1
O	Width Over Fenders	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

Straight Frame

Body Dimensions[1]



		Straight Frame					
Wheelbase (in.)		182.0	194.0	212.0	218.0	230.0	236.0
Code	Description						
CA	Back of Cab to C/L Rear Axle	72.0	84.0	102.0	108.0	120.0	126.0
AF	Axle to End of Frame	39.0/49.0	49.0	70.0	70.0	75.0	75.0
OAL	Overall Length	261/271	283.0	322.0	328.0	345.0	351.0
A	Head Room (Front/Rear)	40.7/40.8	40.7/40.8	40.7/40.8	40.7/40.8	40.7/40.8	40.7/40.8
B	Hip Room (Front/Rear)	67.6/67.6	67.6/67.6	67.6/67.6	67.6/67.6	67.6/67.6	67.6/67.6
C	Max. Leg Room (Front/Rear)	41.4/42.1	41.4/42.1	41.4/42.1	41.4/42.1	41.4/42.1	41.4/42.1
D	Cab Height (without marker lights)	57.4	57.4	57.4	57.4	57.4	57.4
BBC	Front Bumper to Back of Cab	149.9	149.9	149.9	149.9	149.9	149.9
G	C/L Front Axle to Back of Cab	109.5	109.5	109.5	109.5	109.5	109.5
I	Shoulder Room (Front/Rear)	68.0/68.0	68.0/68.0	68.0/68.0	68.0/68.0	68.0/68.0	68.0/68.0
J	Front Tread Width (8.5k/10k) (all 8.5k	—/82.7	—/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7

	axle except Tractor)						
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1	34.1	34.1	34.1
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6	97.6	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

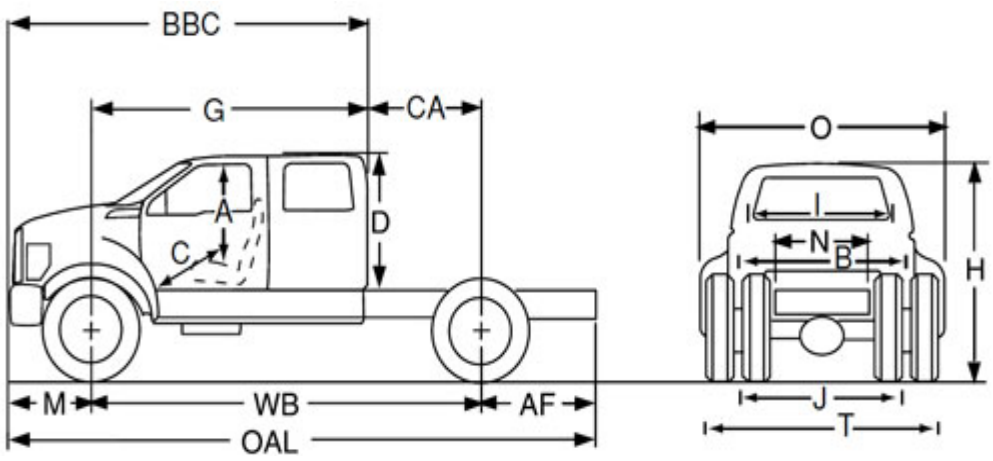
(1) Dimensions are calculated estimates based on engineering measurements.

		Straight Frame				
Wheelbase (in.)		248.0	254.0	260.0	266.0	278.0
Code	Description					
CA	Back of Cab to C/L Rear Axle	138.0	144.0	150.0	156.0	168.0
AF	Axle to End of Frame	81.0	81.0	87.0	87.0	100.0
OAL	Overall Length	369.0	375.0	387.0	393.0	418.0
A	Head Room (Front/Rear)	40.7/40.8	40.7/40.8	40.7/40.8	40.7/40.8	40.7/40.8
B	Hip Room (Front/Rear)	67.6/67.6	67.6/67.6	67.6/67.6	67.6/67.6	67.6/67.6
C	Max. Leg Room (Front/Rear)	41.4/42.1	41.4/42.1	41.4/42.1	41.4/42.1	41.4/42.1
D	Cab Height (without marker lights)	57.4	57.4	57.4	57.4	57.4
BBC	Front Bumper to Back of Cab	149.9	149.9	149.9	149.9	149.9
G	C/L Front Axle to Back of Cab	109.5	109.5	109.5	109.5	109.5
I	Shoulder Room (Front/Rear)	68.0/68.0	68.0/68.0	68.0/68.0	68.0/68.0	68.0/68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7	84.0/82.7
M	Bumper to Axle C/L	40.4	40.4	40.4	40.4	40.4
N	Width Between Frame Rails	34.1	34.1	34.1	34.1	34.1
O	Width Over Fenders	95.5	95.5	95.5	95.5	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3	97.6/94.3

(1) Dimensions are calculated estimates based on engineering measurements.

Tractor

Body Dimensions[1]



		Tractor
Wheelbase (in.)		182.0
Code	Description	
CA	Back of Cab to C/L Rear Axle	72.0
AF	Axle to End of Frame	39.0/49.0
OAL	Overall Length	261/271
A	Head Room (Front/Rear)	40.7/40.8
B	Hip Room (Front/Rear)	67.6/67.6
C	Max. Leg Room (Front/Rear)	41.4/42.1
D	Cab Height (without marker lights)	57.4
BBC	Front Bumper to Back of Cab	149.9
G	C/L Front Axle to Back of Cab	109.5
I	Shoulder Room (Front/Rear)	68.0/68.0
J	Front Tread Width (8.5k/10k) (all 8.5k axle except Tractor)	—/82.7
M	Bumper to Axle C/L	40.4
N	Width Between Frame Rails	34.1
O	Width Over Fenders	95.5
T	Rear Tread Width — Max. Width 22.5"/19.5" (tire outside width rear)	97.6

(1) Dimensions are calculated estimates based on engineering measurements.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities

Fuel Tank Capacity

- All gasoline engine models feature a single left-side-mounted steel tank
  - 50-gallon tank is standard on Regular Cab and SuperCab
  - 60-gallon tank is standard on F-650 Crew Cab and optional on all other models

Gasoline Fuel Tank Capacities				
Capacity (gal.)	Tank Type	Ordering Code	Tank Label Capacity (gal.)	Tank Usable Capacity (gal.)
50	Steel, single, left-hand, rectangular	65A	50	47
60	Steel, single, left-hand, rectangular	65D	60	59

- All diesel engine models feature a single left-side-mounted aluminum tank
  - 50-gallon tank is standard on Regular Cab
  - 55-gallon tank is optional on Regular Cab F-650/F-750 Straight Frame and Tractor models
  - 65-gallon tank is standard on SuperCab and Crew Cab and optional on Regular Cab
- Diesel engine models also offer a dual tank with 115-gallon capacity (65-gallon left side, 50-gallon right side) for longer distances between fill-ups
  - Dual fuel tanks use a selector valve (switch is in cab) for equalization

Diesel Fuel Tank Capacities

Capacity (gal.)	Tank Type	Ordering Code	Tank Label Capacity (gal.)	Tank Usable Capacity (gal.)
50	Aluminum, single, left-hand, rectangular	65B	50	47
55	Aluminum, single, left-hand, D-shape	65C	56	53
65	Aluminum, single, left-hand, rectangular	65E	65	61
115	Aluminum, dual rectangular	65F	65/56 (left/right)	61/53 (left/right)

NOTE: See the latest Body Builders Layout Book for fuel tank mounting and locations.

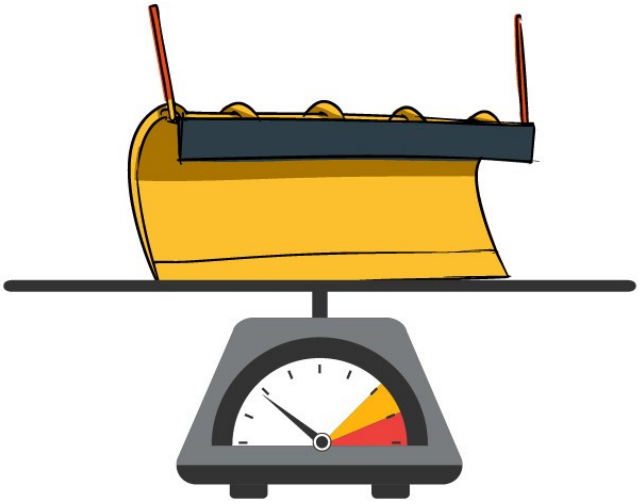
2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Accessory Reserve Capacity (ARC) Calculation

This section provides the information needed to calculate the effect that vehicle options have on the payload capacity of Ford commercial vehicles.

This information is useful to customers who plan to add aftermarket accessories or haul cargo at or near the vehicle's maximum capacity.

This section includes charts for each series, listing the maximum allowable weights for each GVWR.



ACCESSORY RESERVE CAPACITY

You can help prospective buyers estimate the total weight of accessories, equipment and modifications that may be added to the completed vehicle.

Ford vehicles are certified for compliance with the following FMVSS (Federal Motor Vehicle Safety Standards) or CMVSS (Canadian Motor Vehicle Safety Standards):(1)

- 204 — Steering Column Rearward Displacement
- 208 — Occupant Crash Protection
- 212 — Windshield Mounting
- 219 — Windshield Zone Intrusion
- 301 — Fuel System Integrity
- 303 — CNG Fuel System Integrity (Canadian Standard 301.2)

The total added accessory weight must not exceed the allowable weight shown in the tables. You should make retail customers who intend to modify or install accessories or equipment aware of this fact.

If the modification or installation of accessories or equipment causes the unloaded weight of the vehicle, as revised with the added equipment, to exceed the test vehicle weight, the U.S. vehicle alterer(2) may be responsible to certify the altered vehicle according to Title 49, Code of Federal Regulations 567.7 and 568.8. A Canadian vehicle alterer may be responsible to certify the altered vehicle according to Section 6 of the Canadian Motor Vehicle Safety Regulations.

In this section, each vehicle has a worksheet that addresses Total Accessory Reserve Capacity only. It does not consider Front Axle Accessory Reserve Capacity and does not include DSO option weights in the calculations.

To approximate the amount of accessory equipment or modification weight that can be added to a Ford light truck without exceeding the test vehicle weight, calculate an estimated Total Accessory Reserve Capacity as follows:

1. Determine the "Total Actual Regular Production Option Content Weight" of the desired regular production options from the corresponding Accessory Reserve Capacity Calculation/Worksheet on the following page.
2. Subtract the "Total Actual Regular Production Option Content Weight" from the "Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)" for the appropriate model. The difference is the estimated "Total Accessory Reserve Capacity."

	Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)
–	Total Actual Regular Production Option Content Weight
=	Total Accessory Reserve Capacity

Warning: The Accessory Reserve Capacity weight information addresses FMVSS and CMVSS Nos. 204, 208, 212, 219, 301 and 303 compliance only. For all light-duty trucks with a GVW rating under 8,500 lbs., federally certified trucks with a GVW rating of 8,500 to 10,000 lbs. that are optionally emissions certified to light-duty standards and all California complete vehicles with a GVW rating of 14,000 lbs. or less, if more than 500 lbs. is added to the vehicle's "maximum vehicle weight,"(3) the modifier may be responsible for recertification to the applicable EPA or CARB emissions standards.

(1) Ford Motor Company's certification of compliance with FMVSS/CMVSS is based on specific vehicle test weights. These standards are applicable to completed vehicles of 10,000-lb. GVWR or less. Maximum allowable weights shown in the tables for vehicles above 10,000-lb. GVWR are maximum recommended values for optimum performance, durability and customer satisfaction.

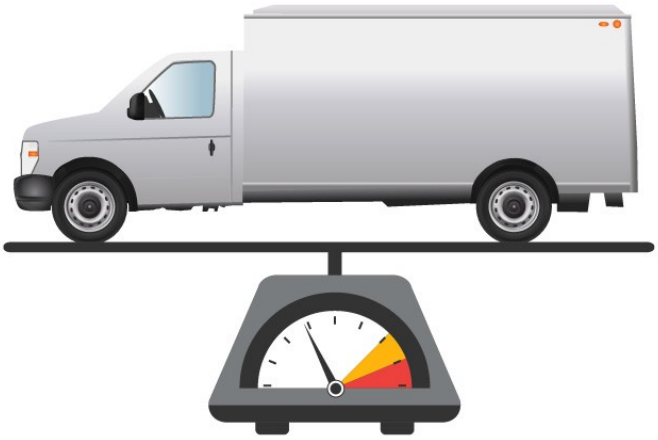
(2) The same procedure to estimate the "Total Accessory Reserve Capacity" is recommended to completed vehicle alterers in Canada.

(3) **Important:** "Maximum vehicle weight" is calculated in accordance with the definition provided in an EPA guidance letter dated July 13, 1979, from C.N. Freed of the EPA to M.H. McBride, legal counsel of the Recreation Vehicle Industry Association. The preceding conditions are based on that letter and on EPA Advisory Circular No. 64 — a March 7, 1977, publication that provides guidance on the need for separate certification of vehicles modified after original manufacture, but prior to sale and delivery to the ultimate purchaser. Additional guidance or questions concerning EPA's policies with respect to alterers of completed vehicles should be directed to legal counsel or the Environmental Protection Agency.

2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Base Curb Weight

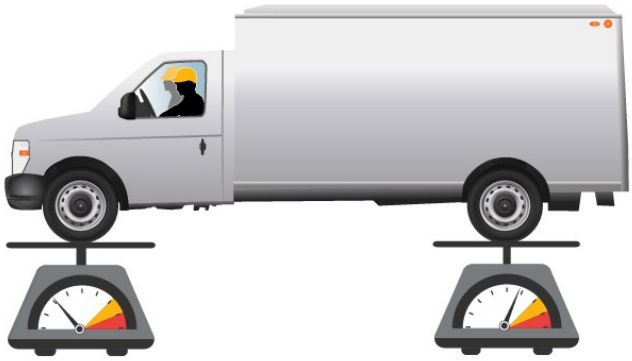
- The weight of the vehicle including standard equipment, oil, lubricants and a full tank of fuel. It does not include the weight of driver, passengers, cargo or any optional or aftermarket equipment
- **Base curb weights for each engine/standard equipment transmission combination are listed in the Weight Ratings pages of each vehicle section (see Maximum Payload Weight Ratings for reference)**
- Actual Regular Production Option Content Weights can be found in the charts under Actual Regular Production Option Content Weights



2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Axle Weight

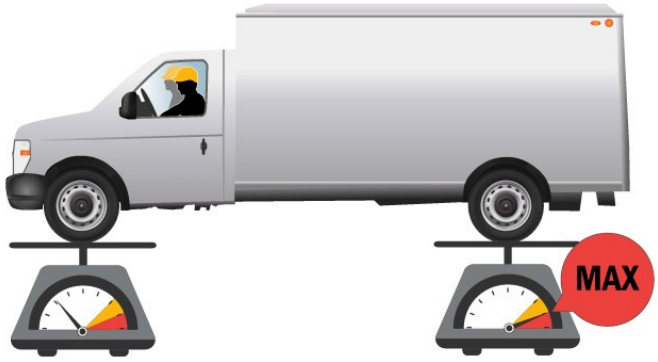
The total weight placed on each axle of the vehicle (front and rear).



2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Axle Weight Rating (GAWR)

The maximum allowable weight to be placed on an individual axle (front or rear). Gross Axle Weight Ratings are provided for both front and rear axles.



2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Combination Weight (GCW)

Gross vehicle weight plus the trailer weight.

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Gross Combination Weight Rating (GCWR)

The maximum allowable weight of the towing vehicle, the trailer and all associated passengers, cargo and equipment.

The point to remember is that the actual weights should never exceed the listed weight ratings. And remind your customers that if they do exceed the recommended weight ratings, they could disqualify their warranty coverage.

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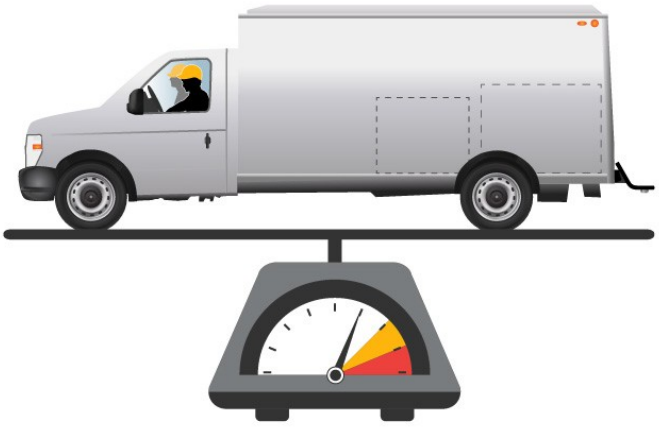
Gross Vehicle Weight (GVW)

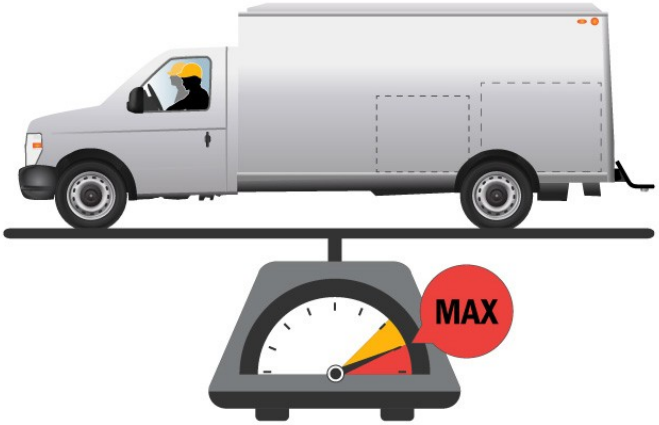
The weight of the vehicle including driver, passengers, optional and aftermarket equipment, and all cargo.



2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Vehicle Weight Rating (GVWR)

The maximum allowable weight of the fully loaded vehicle (including passengers and cargo).



2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Maximum Payload Weight Rating

This is the advertised payload rating. It is the maximum allowable payload for the truck, including driver, passengers, optional and aftermarket equipment, and cargo. The weight of the engine and its standard transmission is already factored into the Maximum Payload Weight Rating. If the engine is also available with an optional transmission, that engine/transmission weight can be found in the Actual Regular Production Option Content Weight charts.

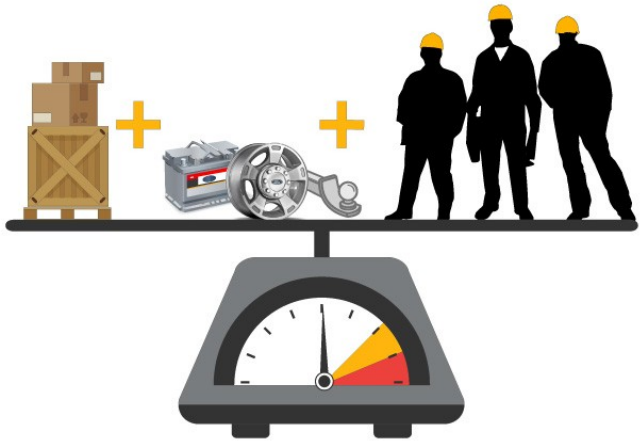
Vehicle Payload Calculation	Front/Total (lbs.)
Maximum Payload Weight Rating(1)	____ /____
Less Total Actual Regular Production Option Content Weight (from Line A, Payload/GVWR Worksheet)	____ /____
Equals Net Total Vehicle Payload (Front and rear axles and spring capacities will be sufficient to carry this payload uniformly distributed in vehicle cargo area)	____ /____

(1) Weight for driver and passengers must be deducted. Refer to the individual vehicle weight rating pages for maximum payload weight ratings. Refer to Regular Production Option Content Weight.

NOTE: Front springs are computer selected to meet specific option requirements for each vehicle; HD front springs are standard if vehicle option weights require.

Maximum Payload Weight Ratings

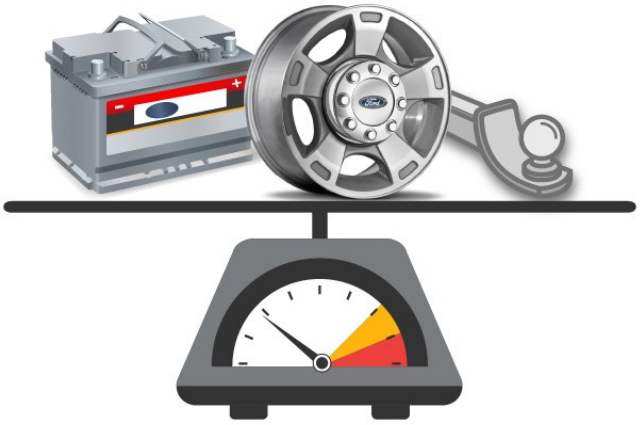
The Payload Weight Ratings and the Max. Option Weight/Max. Total Accessory Reserve Capacity (ARC) Weight Charts(1) are published and can be found in the weight ratings pages of the individual vehicle sections. This information is grouped together with other model, engine/transmission and maximum gross vehicle weight rating (GVWR) data for ease of use.



(1) OPT/ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

Option Weights

The weight of any added equipment that is not included in the base curb weight.



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Passenger Weight

Defined as 150 lbs. multiplied by the number of safety-belted seating positions, including the driver, that the vehicle can carry.

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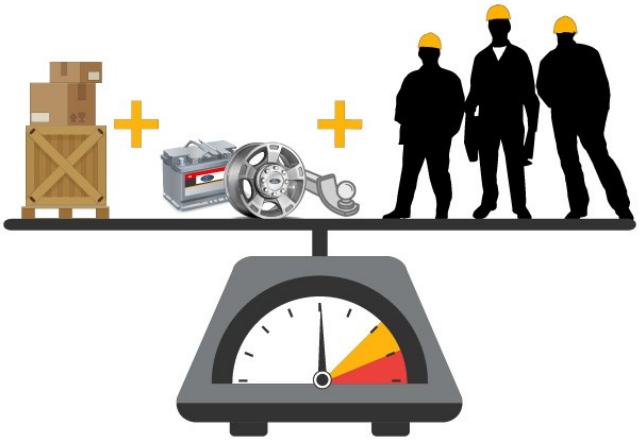
Payload

- Maximum payload is defined as the weight of all passengers, optional and aftermarket equipment, and cargo
- Net payload is defined as the weight that can be placed in the truck after subtracting for driver, passengers, and optional and aftermarket equipment



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Tongue Weight

The amount of the trailer's weight that bears down on the trailer hitch (10 to 15 percent of the total loaded conventional trailer weight or 15 to 25 percent of the total loaded 5th-wheel trailer weight).

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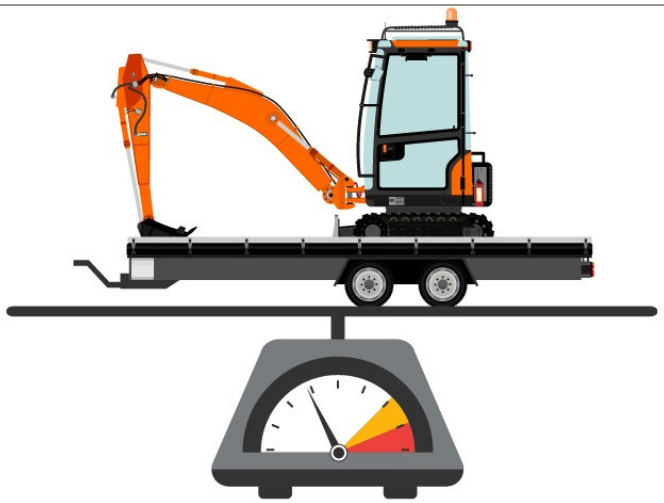
Trailer Weight

The weight of a fully loaded trailer, including all attachments, lights, etc.



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Truck "Nominal Tonnage"

"Nominal Tonnage" is a term that Ford and other manufacturers have historically used to **generally categorize** the load capacity of a vehicle series; it is not a term defined by federal or state law.

Our COV (Certificate of Origin for a Vehicle) includes each particular vehicle's shipping weight as well as the vehicle's gross vehicle weight rating or GVWR (from which one can determine the particular vehicle's rated carrying capacity, including driver, passengers, fluids, body upfit [if applicable] and aftermarket accessories). The COV also includes the vehicle's "Nominal Tonnage."

"Nominal Tonnage" provides the **general** usable cargo capability that most (but not all) of the vehicles with the designated nominal tonnage can expect to handle. That is, nominal tonnage states the general load capacity for each vehicle series, although particular vehicles may have a higher (or in some circumstances, lower) load capacity based on the specifications of the particular vehicle.

Relevant Vehicle Series/Nominal Tonnage Relationship Categories

Nominal Tonnage	Vehicle
½	Ranger, F-150, Transit Connect, Transit Passenger Van
¾	E-350 Cutaway/Stripped Chassis, Transit-150 Cargo Van/Crew Van/Passenger Van, Transit-250 Cargo Van/Crew Van, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,499 lbs.), Transit-250 Cutaway/Chassis Cab, F-250 Pickup
1	E-450 Cutaway/Stripped Chassis, Transit-350 Cargo Van/Crew Van/Passenger Van (GVWR 9,500 lbs.), Transit-350 Cutaway/Chassis Cab, F-350 Pickup, F-350 Chassis Cab
1½	F-450 Pickup, F-450 Chassis Cab
2	F-550 Chassis Cab

2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Vehicle Class Ratings by GVWR

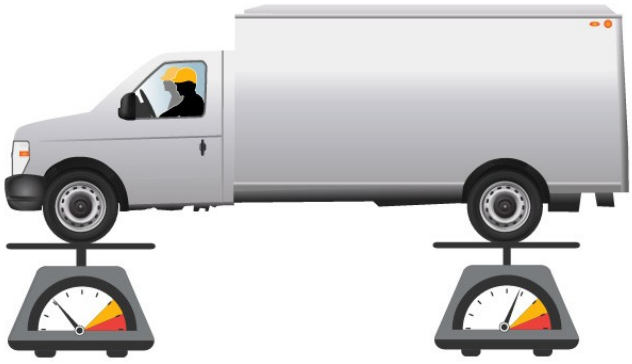
Weight Class	GVWR Range (lbs.)	Vehicle/Model
1	Up to 6,000	Transit Connect Cargo Van (5,110–5,302 lbs.) Transit Connect Passenger Wagon (5,302–5,420 lbs.)
2	6,001 to 10,000	Ranger (6,050 lbs.) Transit-150 Cargo Van/Passenger Van (8,670/8,550 lbs.) Transit-250 Cargo Van/Crew Van (9,070 lbs.) Transit-350 Cargo Van/Crew Van (9,250–9,950 lbs.) Transit-350 Passenger Van (9,250–9,550 lbs.) Transit-250 Cutaway/Chassis Cabs (9,070 lbs.) Transit-350 Cutaway/Chassis Cabs (9,500 and 9,950 lbs.) E-Transit T350 Cargo Van, Chassis Cab and Cutaway (9,500 lbs.) F-150 (6,070–7,850 lbs.) F-250 Pickup (9,900–10,000 lbs.) F-350 Pickup (10,000 lbs.) F-350 Chassis Cab SRW (9,800–10,000 lbs.)
3	10,001 to 14,000	E-350 Cutaway (10,050–12,500 lbs.) E-350 Stripped Chassis (11,500–12,500 lbs.) Transit-350 Cargo Van/Crew Van/Passenger Van (10,360 lbs.; 11,000 lbs. [Cargo Van only]) Transit-350 Cutaway/Chassis Cab (10,360 and 11,000 lbs.) F-250 Pickup (10,400–10,800 lbs.) F-350 SRW Pickup (10,100–12,400 lbs.) F-350 DRW Pickup (13,000(1)–14,000 lbs.) F-350 Chassis Cab SRW (10,500–11,500 lbs.) F-350 DRW Chassis Cab (14,000 lbs.) E-450 Cutaway (14,000 lbs.) E-450 Stripped Chassis (14,000 lbs.) F-450 Pickup (14,000 lbs.)
4	14,001 to 16,000	E-450 Cutaway (14,200–14,500 lbs.) E-450 Stripped Chassis (14,200–14,500 lbs.) F-450 Chassis (15,000–16,000 lbs.) F59 Commercial Stripped Chassis (16,000 lbs.) F53 Motorhome Chassis (16,000 lbs.)
5	16,001 to 19,500	F-450 Chassis Cab (16,500 lbs.) F-550 (17,500–19,500 lbs.) F59 Commercial Stripped Chassis (19,500 lbs.) F53 Motorhome Chassis (18,000 lbs.)
6	19,501 to 26,000	F-600 (22,000) F-650 Gasoline (22,000–26,000 lbs.)/Diesel (22,000–26,000 lbs.) F59 Commercial Stripped Chassis (22,000 lbs.) F53 Motorhome Chassis (20,500–26,000 lbs.)
7	26,001 to 33,000	F-650 (27,500–29,000 lbs. Gas and Diesel) F-750 (31,000–33,000 lbs. Gas and Diesel)
8	33,001 plus	F-750 (34,200–37,000 lbs. Diesel)

(1) 13,000 lbs. Pickup Box Delete only.

2023 Medium Duty Chassis Cabs > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Weight Distribution

That portion of a vehicle's total weight that will be supported by each axle and each tire. Proper distribution of vehicle weight is critical to braking, handling and to the service life of components such as axles, springs, bearings and tires.



Pro Loader

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)[1] Gas/Diesel
F-650 Pro Loader (Hydraulic)	Regular Cab	158	8,748/9,407
		182	8,852/9,511
		194	8,886/9,545
		218	8,969/9,628
		242	9,154/9,813
	SuperCab	179	9,024/9,683
		203	9,108/9,765
		239	9,242/9,901
	Crew Cab	194	9,230/9,889
		218	9,303/9,962
		254	9,527/10,186
F-650 Pro Loader (Air)	Regular Cab	158	—/10,849
		182	—/10,953
		194	—/10,987
		218	—/11,070
		242	—/11,255
	SuperCab	179	—/11,125
		203	—/11,207
		239	—/11,343
	Crew Cab	194	—/10,331
		218	—/10,404
		254	—/10,628

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

F-650 Straight Frame — Air Brakes

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)[1] Gas/Diesel
F-650 Straight Frame (Air)	Regular Cab	158	—/11,032
		176	—/11,154
		182	—/11,172
		194	—/11,222
		200	—/11,253
		212	—/11,301
		218	—/11,338
		224	—/11,392
		230	—/11,410
		242	—/11,492
		260[3]	—/11,587
		281	11,119/11,822
	SuperCab	179	—/11,312
		197	—/11,419
		203	—/11,432
		215	—/11,485
		221	—/11,520
		233	—/11,570
		239	—/11,589
		245	—/11,594
		251	—/11,671
		263[3]	—/11,728
		281	11,517/12,270
	Crew Cab	182	—/11,454
		194	—/11,521
		212	—/11,621
		218	—/11,654
		230	—/11,728
		236	—/11,748
		248	—/11,789
		254[2]	—/11,805
		260[2]	—/11,860
		266[2]	—/11877
		278[2]	—/11,947

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

(2) Not available with 533 frame.

F-650 Straight Frame — Hydraulic Brakes

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)(1) Gas/Diesel
F-650 Straight Frame (Hydraulic)	Regular Cab	158	8,912/9,669
		176	9,028/9,780
		182	9,067/9,817
		194	9,144/9,891
		200	9,183/9,928
		212	9,260/10,002
		218	9,298/10,039
		224	9,337/10,076
		230	9,376/10,113
		242	9,453/10,187
		260(2)	9,569/10,298
		281	10,746/11,499
	SuperCab	179	9,400/10,136
		197	9,516/10484
		203	9,555/10,302
		215	9,670/10,384
		221	9,709/10,425
		233	9,748/10,508
		239	9,777/10,549
		245	9,825/10,591
		251	9,873/10,632
		263(2)	9,941/10,715
		281	11,144/11,897
	Crew Cab	182	9,702/10,386
		194	9,779/10,484
		212	9,895/10,632
		218	9,933/10,681
		230	10,011/10,779
		236	10,059/10,829
		248	10,136/10,927
		254(2)	10,156/10,976
		260(2)	10,204/11,025
		266(2)	10,252/11,075

		278[2]	10,348/11,173

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

(2) Not available with 533 frame.

F-750 Straight Frame — Air Brakes

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)[1] Gas/Diesel
F-750 Straight Frame (Air)	Regular Cab	158	—/11,242
		176	—/11,385
		182	—/11,406
		194	—/11,465
		200	—/11,500
		212	—/11,558
		218	—/11,598
		224	—/11,659
		230	—/11,680
		242	—/11,775
		260	—/11,891
		281 with 539 frame	—/12,405
		281 with 536 frame and 41R	—/13,088
	SuperCab	179	—/11,534
		197	—/11,661
		203	—/11,678
		215	—/11,740
		221	—/11,779
		233	—/11,839
		239	—/11,861
		245	—/11,938
		251	—/11,953
		263	—/12,023
		281 with 539 frame	—/12,517
		281 with 536 frame and 41R	—/12,544
	Crew Cab	182	—/11,677
		194	—/11,751
		212	—/11,872
		218	—/11,908
		230	—/11,992
		236	—/12,015

		248	—/12,062
		254	—/12,084
		260	—/12,146
		266	—/12,166

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

F-750 Straight Frame — Hydraulic Brakes

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)[1] Gas/Diesel
F-750 Straight Frame (Hydraulic)	Regular Cab	158	9,240/10,039
		176	9,367/10,179
		182	9,409/10,225
		194	9,493/10,318
		200	9,536/10,364
		212	9,621/10,457
		218	9,663/10,503
		224	9,706/10,550
		230	9,747/10,596
		242	9,833/10,689
		260	9,960/10,828
		281 with 539 frame	10616/11,500
		281 with 536 frame and 41R	11,337/12,221
	SuperCab	179	9,738/10,539
		197	9,865/10,691
		203	9,908/10,742
		215	9,993/10,843
		221	10,035/10,894
		233	10,119/11,005
		239	10,175/11,046
		245	10,204/11,096
		251	10,251/11,147
		263	10,331/11,248
		281 with 539 frame	10,963/11,908
		281 with 536 frame and 41R	11,684/12,628
	Crew Cab	182	10,044/11,094
		194	10,128/11,157
		212	10,256/11,250
		218	10,298/11,281

		230	10,382/11,343
		236	10,430/11,375
		248	10,514/11,437
		254	10,546/11,468
		260	10,594/11,499
		266	10,642/11,530

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

2023 Medium Duty Chassis Cabs > Specs > Dimensions/Weights/Capacities > Total Curb Weights

Tractor

Series	Cab Style	Wheelbase Range (in.)	Total Curb Weight (lbs.)(1) Gas/Diesel
F-650 Tractor	Regular Cab	146	—/11,062
		158	—/11,147
	SuperCab	167	—/11,324
		179	—/11,504
	Crew Cab	182	—/11,573
F-750 Tractor	Regular Cab	146	—/11,274
		158	—/11,359
	SuperCab	167	—/11,536
		179	—/11,716
	Crew Cab	182	—/11,785

(1) Includes minimum required and standard equipment, water and oil. Calculated estimates based on engineering component weights — not actual vehicle weights.

2023 Medium Duty Chassis Cabs > Specs

Standard Equipment — Diesel

F-650 Crew Cab
F-650 Regular Cab
F-650 SuperCab
F-650/F-750 Crew Cab Tractor
F-650/F-750 SuperCab Tractor
F-650/F-750 Tractor
F-750 Crew Cab
F-750 Regular Cab
F-750 SuperCab

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650 Regular Cab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		20,500/26,000	26,000/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)	
Transmission	Type	Ford TorqShift Heavy-Duty	

	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	8,500 lbs.	8,500/10,000 lbs.
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-140	SPL-140
BRAKES:			
System	Type	Hydraulic, Split System, with Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-mounted Parking Brake (Bosch) DSSA Type with Lever Control	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-volt Maintenance-free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab	
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.9:1 (8,500-lb. FGAWR w/9.5" frame); 18.8:1 (8,500-lb. FGAWR w/8.5" frame); 19.0:1 (10,000-lb. FGAWR)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 PSI Steel	Ladder Type Single-Channel — Straight “C” 50,000 PSI Steel
	Section Modulus (cu. in.)	10.75	16.98
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-leaf	
	Rating @ Ground (min.)	8,500 lbs.	
Springs, Rear	Type	Multi-leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-ply rated)	11R22.5G (14-ply rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-ply rated)	11R22.5G (14-ply rated)
WHEELS:			

Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650/F-750 Tractor

DRIVE:		F-650 Tractor	F-750 Tractor
GVWR (lbs.):		27,500/29,000	31,000/37,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears with 190 Wheel Ends	Single Reduction, Open
	Capacity (Rating @ Ground)	17,500 lbs.	21,000 lbs.
Driveshaft	Type	SPL-140	
BRAKES:			
System	Type	Bendix Air Brakes, Meritor Q-Plus brake shoes with ABS and Traction Control	
Front	Type	15.0" x 4.0"	
Rear	Type	16.5" x 7.0"	
Anti-Lock System		Bendix® Four-Channel	
Parking Brake (Rear Brakes)		Mechanical Spring-Applied with Air Release	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single, Horizontal Muffler, Right-Hand, Right Side Under Cab Outside Frame Rail with Rear, Underbody Exit, Switchback-Style	
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	19.0:1	
SUSPENSION:			
Frame	Type	Ladder Type, Single-Channel 120,000 psi steel	
	Section Modulus	14.18	

	(cu. in.)		
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	10,000	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	19,000 lbs.	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
Rear	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
WHEELS:			
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-750 Regular Cab

DRIVE:		F-750 Straight Frame
GVWR (lbs.):		31,000/37,000
POWERTRAIN:		50-State Certified
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-140
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc
Rear	Type	15.00" x 1.44" Cast Disc
Anti-Lock System		Four-Channel

Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control
ELECTRICAL:		
Alternator	Rating	Denso SC5, 200 Amperes
Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	Dual, 750 CCA (1,500 CCA Total)
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Aluminum
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000 lbs.
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650 SuperCab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		22,000/26,000	26,000/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)	

Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	8,500 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-140	SPL-140
BRAKES:			
System	Type	Hydraulic, Split System, Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab	
FUEL TANK:	Capacity	65.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.9:1 (8,500-lbs. FGAWR w/9.5" frame); 18.8:1 (8,500-lbs. FGAWR w/8.5" frame)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 psi steel	Ladder Type Single-Channel — Straight “C” 50,000 psi steel
	Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	8,500 lbs.	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
WHEELS:			

Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650/F-750 SuperCab Tractor

DRIVE:		F-650 Tractor	F-750 Tractor
GVWR (lbs.):		27,500/29,000	31,000/37,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears with 190 Wheel Ends	Single Reduction, Open
	Capacity (Rating @ Ground)	17,500 lbs.	21,000 lbs.
Driveshaft	Type	SPL-140	
BRAKES:			
System	Type	Bendix Air Brakes, with Meritor Q-Plus shoes with ABS and Traction Control	
Front	Type	15.0" x 4.0"	
Rear	Type	16.5" x 7.0"	
Anti-Lock System		Bendix® Four-Channel	
Parking Brake (Rear Brakes)		Mechanical Spring-Applied with Air Release	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single, Horizontal Muffler, Right-Hand, Right Side Under Cab Outside Frame Rail with Rear, Underbody Exit, Switchback-Style	
FUEL TANK:	Capacity	65.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	19.0:1	
SUSPENSION:			
Frame	Type	Ladder Type, Single-Channel — 120,000 PSI Steel	

	Section Modulus (cu. in.)	14.18	
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	10,000	
Springs, Rear	Type	Multi-Leaf (Includes 4,500-lb. Auxiliary Rubber Spring)	
	Rating @ Ground (min.)	19,000 lbs.	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
Rear	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
WHEELS:			
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-750 SuperCab

DRIVE:		F-750 Straight Frame
GVWR (lbs.):		31,000/37,000
POWERTRAIN:		50-State Certified
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-140
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc
Rear	Type	15.00" x 1.44" Cast Disc

Anti-Lock System		Four-Channel
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type
ELECTRICAL:		
Alternator	Rating	Denso SC5, 200 Amperes
Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	Dual, 750 CCA (1,500 CCA Total)
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab
FUEL TANK:	Capacity	65.0-Gallon, Single, H Rectangular Aluminum
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000 lbs.
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650 Crew Cab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		20,500/26,000	26,000/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm	

		Governed Speed)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	8,500 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-140	SPL-140
BRAKES:			
System	Type	Hydraulic, Split System, Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab	
FUEL TANK:	Capacity	65.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.8:1 (8,500-lbs. FGAWR w/8.5" Frame); 18.9:1 (8,500-lbs. FGAWR w/9.5"Frame)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 PSI Steel	Ladder Type Single-channel — Straight “C” 50,000 PSI Steel
	Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	8,500 lbs.	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)

WHEELS:			
Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-650/F-750 Crew Cab Tractor

DRIVE:		F-650 Tractor	F-750 Tractor
GVWR (lbs.):		27,500/29,000	31,000/37,000
POWERTRAIN:		50-State Certified	
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	10,000 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears with 190 Wheel Ends	Single Reduction, Open
	Capacity (Rating @ Ground)	17,500 lbs.	21,000 lbs.
Driveshaft	Type	SPL-140	
BRAKES:			
System	Type	Air Brakes, Meritor Q-Plus with ABS and Traction Control	
Front	Type	15.0" x 4.0"	
Rear	Type	16.5" x 7.0"	
Anti-Lock System		Bendix® Four-Channel	
Parking Brake (Rear Brakes)		Mechanical Spring-Applied with Air Release	
ELECTRICAL:			
Alternator	Rating	Denso SC5, 200 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	Dual, 750 CCA (1,500 CCA Total)	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single, Horizontal Muffler, Right-Hand, Right Side Under Cab Outside Frame Rail with Rear, Underbody Exit, Switchback-Style	
FUEL TANK:	Capacity	65.0-Gallon, Single, LH Rectangular Aluminum	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	19.0:1	
SUSPENSION:			

Frame	Type	Ladder Type, Single-Channel 120,000 PSI Steel	
	Section Modulus (cu. in.)	14.18	
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	10,000	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	19,000 lbs.	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
Rear	Type	Goodyear Fuel Max RSA	
	Size	11R22.5G (14-Ply Rated)	
WHEELS:			
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White	
	Size	22.5" x 7.5"	

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Diesel

F-750 Crew Cab

DRIVE:		F-750 Straight Frame
GVWR (lbs.):		31,000/37,000
POWERTRAIN:		50-State Certified
Engine	Type	6.7L Power Stroke V8 (270 hp @ 2,400 rpm, 700 lb.-ft. of torque @ 1,500 rpm, 3,200 rpm Governed Speed)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-140
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc

Rear	Type	15.00" x 1.44" Cast Disc
Anti-Lock System		Four-Channel
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type
ELECTRICAL:		
Alternator	Rating	Denso SC5, 200 Amperes
Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	Dual, 750 CCA (1,500 CCA Total)
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Aftertreatment Device, Aluminized Steel, Frame-Mounted Right Side, Back of Cab
FUEL TANK:	Capacity	65.0-Gallon, Single, LH Rectangular Aluminum
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000 lbs.
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs

Standard Equipment — Gasoline

F-650 Crew Cab
F-650 Regular Cab
F-650 SuperCab
F-750 Crew Cab
F-750 Regular Cab
F-750 SuperCab

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-650 Regular Cab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		22,000/26,000	26,000/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. of torque @ 3,900 rpm)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	8,500 lbs.	8,500/10,000 (optional) lbs.
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-100	SPL-100
BRAKES:			
System	Type	Hydraulic, Split System, Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control	
ELECTRICAL:			
Alternator	Rating	210 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	900 CCA	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction	
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Steel	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.8:1 (8,500-lbs. FGAWR w/8.5" Frame); 18.9:1 (8,500-lbs. FGAWR w/9.5" Frame); 19.0:1 (10,000-lbs. FGAWR)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 PSI Steel	Ladder Type Single-Channel — Straight “C” 50,000 PSI Steel
	Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	8,500 lbs.	

Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
WHEELS:			
Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-750 Regular Cab

DRIVE:		F-750 Straight Frame
GVWR (lbs.):		30,200/33,000
POWERTRAIN:		50-State Certified
Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. torque @ 3,900 rpm)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-100
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc
Rear	Type	15.00" x 1.44" Cast Disc
Anti-Lock System		Four-Channel
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control
ELECTRICAL:		
Alternator	Rating	210 Amperes

Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	900 CCA
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Steel
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type, Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-650 SuperCab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		22,000/26,000	25,600/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. of torque @ 3,900 rpm)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	

	Capacity (Rating @ Ground)	8,500 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-100	SPL-100
BRAKES:			
System	Type	Hydraulic, Split System, Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control	
ELECTRICAL:			
Alternator	Rating	210 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	900 CCA	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction	
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Steel	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.8:1 (w/8.5" Frame); 18.9:1 (w/9.5" Frame)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 PSI Steel	Ladder Type Single-channel — Straight “C” 50,000 PSI Steel
	Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	8,500 lbs.	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
WHEELS:			
Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White

	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-750 SuperCab

DRIVE:		F-750 Straight Frame
GVWR (lbs.):		30,200/33,000
POWERTRAIN:		50-State Certified
Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. torque @ 3,900 rpm)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-100
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc
Rear	Type	15.00" x 1.44" Cast Disc
Anti-Lock System		Four-Channel
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control
ELECTRICAL:		
Alternator	Rating	210 Amperes
Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	900 CCA
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction
FUEL TANK:	Capacity	50.0-Gallon, Single, LH Rectangular Steel
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type, Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock	Type	1.42" Dia. Double-Acting

Absorbers, Front		
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-650 Crew Cab

DRIVE:		F-650 Pro Loader	F-650 Straight Frame
GVWR (lbs.):		22,000/26,000	26,000/29,000
POWERTRAIN:		50-State Certified	
Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. of torque @ 3,900 rpm)	
Transmission	Type	Ford TorqShift Heavy-Duty	
	Speeds	6-Speed Automatic Overdrive	
Front Axle	Type	Dana I-Beam Type	
	Capacity (Rating @ Ground)	8,500 lbs.	
Rear Axle	Type	Single Reduction, GenTech Quiet Gears, Synthetic Lube and 190 Wheel Ends	
	Capacity (Rating @ Ground)	13,500 lbs.	17,500 lbs.
Driveshaft	Type	SPL-100	SPL-100
BRAKES:			
System	Type	Hydraulic, Split System, Automatic Adjustment	
Front	Type	15.00" x 1.44" Cast Disc	
Rear	Type	15.00" x 1.44" Cast Disc	
Anti-Lock System		Four-Channel	
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control	

ELECTRICAL:			
Alternator	Rating	210 Amperes	
Battery	Type	Motorcraft 12-Volt Maintenance-Free	
	Rating	900 CCA	
	Box Location	Right Side Under Cab	
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction	
FUEL TANK:	Capacity	60.0-Gallon, Single, LH Rectangular Steel	
STEERING:	Type	Integral Power, ZF/Bosch ZN4	
	Ratio	18.8:1 (w/8.5" Frame); 18.9:1 (w/9.5" Frame)	
SUSPENSION:			
Frame	Type	Ladder Type Single-Channel — Tapered 80,000 PSI Steel	Ladder Type Single-Channel — Straight “C” 50,000 PSI Steel
	Section Modulus (cu. in.)	10.75	12.64
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting	
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf	
	Rating @ Ground (min.)	8,500 lbs.	
Springs, Rear	Type	Multi-Leaf	
	Rating @ Ground (min.)	15,500 lbs.	19,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear	
TIRES:			
Front	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
Rear	Type	Hankook AH35	Goodyear Fuel Max RSA
	Size	245/70R19.5G (14-Ply Rated)	11R22.5G (14-Ply Rated)
WHEELS:			
Front	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"
Rear	Type	8-Hole Steel Disc, Hub-Piloted, Powder-Coated White	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	19.5" x 6.75"	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs > Standard Equipment — Gasoline

F-750 Crew Cab

DRIVE:	F-750 Straight Frame
GVWR (lbs.):	30,200/33,000
POWERTRAIN:	50-State Certified

Engine	Type	Ford 7.3L PFI Gas V8 (350 hp @ 3,900 rpm, 468 lb.-ft. of torque @ 3,900 rpm)
Transmission	Type	Ford TorqShift Heavy-Duty
	Speeds	6-Speed Automatic Overdrive
Front Axle	Type	Dana I-Beam Type
	Capacity (Rating @ Ground)	10,000 lbs.
Rear Axle	Type	Single Reduction, Open
	Capacity (Rating @ Ground)	21,000 lbs.
Driveshaft	Type	SPL-100
BRAKES:		
System	Type	Hydraulic, Split System, Automatic Adjustment
Front	Type	15.00" x 1.44" Cast Disc
Rear	Type	15.00" x 1.44" Cast Disc
Anti-Lock System		Four-Channel
Parking Brake (Rear Brakes)		12" x 3" Rear Axle-Mounted Parking Brake (Bosch) DSSA Type with Lever Control
ELECTRICAL:		
Alternator	Rating	210 Amperes
Battery	Type	Motorcraft 12-Volt Maintenance-Free
	Rating	900 CCA
	Box Location	Right Side Under Cab
EXHAUST:	Type	Single Horizontal Muffler, Catalytic Converter, Frame-Mounted Right Side, Back of Cab, Downward-Facing Outlet Tip, Stainless Steel Construction
FUEL TANK:	Capacity	60.0-Gallon, Single, LH Rectangular Steel
STEERING:	Type	Integral Power, ZF/Bosch ZN4
	Ratio	19.0:1
SUSPENSION:		
Frame	Type	Ladder Type, Single-Channel 80,000 PSI Steel
	Section Modulus (cu. in.)	15.14
Shock Absorbers, Front	Type	1.42" Dia. Double-Acting
Springs, Front	Type	3.15" x 62" Parabolic Taper-Leaf
	Rating @ Ground (min.)	10,000
Springs, Rear	Type	Multi-Leaf
	Rating @ Ground (min.)	21,000 lbs.
WHEEL SEALS:	Type	Stemco Front and Rear
TIRES:		
Front	Type	Goodyear Fuel Max RSA
	Size	11R22.5G (14-Ply Rated)
Rear	Type	Goodyear Fuel Max RSA

	Size	11R22.5G (14-Ply Rated)
WHEELS:		
Front	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"
Rear	Type	10-Hole Steel Disc, Hub-Piloted, Powder-Coated White
	Size	22.5" x 7.5"

2023 Medium Duty Chassis Cabs > Specs

Powertrain

Air Conditioning Specifications
Automatic Transmission Specifications
Cooling System Specifications
Engine
Fuel System Data
Heater and Defroster Specifications
Universal Joint Driveshaft Specifications

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Engine

Driveline Layout	Front engine, rear wheel (RWD)	
Engine Type	**7.3L PFI Gas V8**	**6.7L Power Stroke V8 Turbo Diesel**
Displacement (liters/cu. in.)	7.3/445	6.7/406
Horsepower (@ rpm)	350 @ 3,900	270 @ 2,400 300 @ 2,500 330 @ 2,600
Torque (lb.-ft. @ rpm)	468 @ 3,900	700 @ 1,500 725 @ 1,500 750 @ 1,500
Compression Ratio	10.5:1	15.8:1
Valvetrain	OHV	OHV
Valve Operation	Push Rod/Rocker Arms	Push Rod/Rocker Arms
Bore & Stroke (in.)	4.21 x 3.95	3.90 x 4.25
Main bearings	5	5
Induction	Naturally aspirated	Single turbocharged
Fuel System	Port Fuel Injection	Direct-injection
Fuel Requirement (octane)	87 (min.)	ULSD Diesel/B20 biodiesel

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Automatic Transmission Specifications

Make/Type	Ford TorqShift Heavy-Duty 6-Speed Automatic
Torque Capacity (lb.-ft.) Net	
Ratios (to 1):	
1st	3.97

2nd	2.31
3rd	1.51
4th	1.14
5th	0.85
6th	0.67
Reverse	3.12
Gears — Type	
Fluid Capacity (qts.)	Diesel: 16.3 Gas: 17.4
Oil System	Sump
Filter	Internal High-Efficiency
Power Takeoff (PTO) Provision Data:	
Opening	SAE 6-Bolt LH
Gear Ratio	1.00:1
Torque Rating	Diesel Stationary Mode: 300 lb.-ft. Diesel Mobile Mode: 200 lb.-ft. Gas Stationary Mode: 250 lb.-ft. Gas Mobile Mode: 125 lb.-ft.

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Cooling System Specifications

Engine	Trans.	Radiator Area (sq. in.)	Core Thickness (in.)	Total Number of Tubes	Fins Per Inch	System Capacity Qts. (liters)	Fan Blades	Blade Dia. (in.)	Clutch Type
6.7L HT	Ford	993	1.65	88	15	35.1 (33.2)	9	26.0	Viscous
7.3L	Ford	993	1.65	88	15	28.8 (27.3)	8	20.0	Viscous

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Air Conditioning Specifications

Make	Refrigerant	Compressor	Condenser Location	Evaporator Location
Ford	R-134A	HVCC	Radiator-Mounted	RH Under Instrument Panel

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Heater and Defroster Specifications

Make	Blower Motor	Heater Core Location	Air Intake	Water Shutoff to Heat
Ford	7-Speed, Wired to Ignition	In-Cab, RH Side	Fresh Air; Top of Cowl	None

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Fuel System Data

Engine	Injection Method	Fuel Pump/Location	Fuel Filter/Location	Air Cleaner
Ford 6.7L	Direct, High-Pressure Pump	Mechanical/Engine-Mounted	Spin-On/Cylinder Head	Dry Type
Ford 7.3L	Port Fuel Injection	Fuel Tank	In-Tank	Dry Type

2023 Medium Duty Chassis Cabs > Specs > Powertrain

Universal Joint Driveshaft Specifications

Transmission	U-joint/Driveshaft
Ford	SPL-100 (Gasoline and Diesel)
Ford	SPL-140 (Diesel Only)

2023 Medium Duty Chassis Cabs > Specs

Chassis

1. Shape and Dimensional Characteristics
2. Material Characteristics
3. Combination of Shape, Dimensional and Material Characteristics
Air Brake Air Dryer Specifications
Air Brake Equipment Specifications — Front Drum
Air Brake Equipment Specifications — Rear Drum
Air Brake Slack Adjuster Specifications
Air Compressor Specifications
Aspect Ratio
Bumper Specifications
Computing Frame Strength
Frame Rail Cross Sections
Frame Rail Specifications
Frame Strength Considerations
Front Axle Specifications
Hydraulic Brake Booster Specifications
Hydraulic Brake Equipment Specifications — Front/Rear Disc
Hydraulic Brake Master Cylinder Specifications
Minimum Dual Spacing
Overall Diameter
Power Steering Pump Specifications
Rear Axle Specifications
Revolutions per Mile
Rim Width
Section Height
Shock Absorber Specifications — Front Only
Shock Absorber Specifications — Rear Only (with Air Suspension)
Shock Absorber Specifications — Rear Steel Suspension Only
Size Factor
Spring Specifications — Front Leaf
Spring Specifications — Rear Leaf
Static Loaded Radius
Steering Specifications
Tire (Overall) Width
Tire Section
Tire Specifications — 19.5" Wheel Configurations
Tire Specifications — 22.5" Wheel Configurations
Tread Width
Wheel Specifications
Width Loaded
Windshield Wipers

2023 Medium Duty Chassis Cabs > Specs > Chassis

Air Brake Air Dryer Specifications

Make/Model	Weight	Remarks
Bendix/AD/IS	19.6 lbs.	Integrated system

2023 Medium Duty Chassis Cabs > Specs > Chassis

Air Brake Equipment Specifications — Front Drum

Type	Axle (lbs.)	Shoe/Pad Length x Width (in.)	Lining Thickness (in.)	Drum Area Per Axle (sq. in.)	Chamber Diaphragm Area (sq. in.)	Dust Shield
Meritor/Q-Plus S-Cam	8500 10,000/ 12,000/ 13,200	15.00 x 4.00	.73	230	20	Removable
	14,000	16.50 x 7.00	.73	420	20	Removable

2023 Medium Duty Chassis Cabs > Specs > Chassis

Air Brake Equipment Specifications — Rear Drum

Type	Axle (lbs.)	Shoe/Pad Length x Width (in.)	Lining Thickness (in.)	Drum Area Per Axle (sq. in.)	Chamber Diaphragm Area (sq. in.)	Dust Shield
Meritor/Q-Plus S-Cam	17,500	15.00 x 8.63	.85	440	30	Removable
	19,000/ 21,000/ 23,000	16.50 x 7.00	.85	440	30	Removable

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Air Brake Slack Adjuster Specifications

Axle	Make	Description
Front and Rear	Meritor®	5.5" length

2023 Medium Duty Chassis Cabs > Specs > Chassis

Air Compressor Specifications

Make	CFM	Compressor Size (Bore x Stroke) (in.)	Cooling	Lubrication	Drive
Bendix®	13.2	Twin 2.78 x 1.50	Water	Engine Oil	Pulley

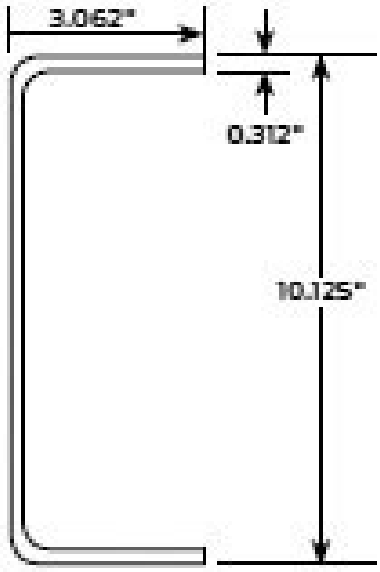
2023 Medium Duty Chassis Cabs > Specs > Chassis

Bumper Specifications

Size	Material	Finish
Full-width	0.1875" Thick Steel	Painted, Carbon Black
Full-width	0.1875" Thick Steel	Plated, Chrome

2023 Medium Duty Chassis Cabs > Specs > Chassis

Frame Rail Cross Sections



Frame 534

Frame Rail Specifications

Code	Type	Side Rail Dimensions (in.)			Material (Notes)	Yield Strength (psi)	Nominal Section Modulus (cu. in.)	Nominal Resisting Bending Moment (in.-lbs.)	GVWR Max. (lbs.)
		Depth	Width	Thickness					
534	Straight-Channel Side Rail	10.125	3.062	0.312	A	50,000	12.64	632,000	29,000
537	Straight-Channel Side Rail with Kick-up at Rear Suspension Rearward(1)	9.125	3.062	0.312	A	80,000	10.75	860,000	26,000
533	Straight-Channel Side Rail	9.125	3.062	0.312	A	80,000	10.75	860,000	29,000
535	Straight-Channel Side Rail	10.250	3.092	0.375	A	80,000	15.14	1,211,000	29,000 — 37,000
536	Straight-Channel Side Rail	10.125	3.580	0.312	B	120,000	14.18	1,702,000	29,000 — 37,000
538	Straight-Channel	10.250	3.61	0.375	B	120,000	16.98	2,038,000	31,000 —

	Side Rail								37,000
539	Straight-Channel Side Rail	10.375	3.705	0.438	B	120,000	20.11	2,413,000	37,000
41R	Straight-Channel Side Rail — Full-Channel Outer "C" Channel Reinforcement	10.813	3.892	0.312	B	120,000	29.20(2)	3,504,000	37,000

(1) Kick-up rail section is 6.50" in depth.

(2) Section modulus value included base frame rail, code 536.

Notes:

A = High-strengh, low-alloy steel

B = Heat-treated alloy steel

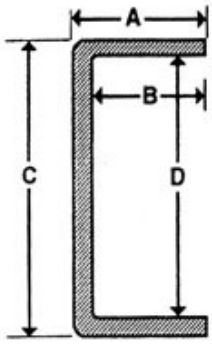
NOTE: For product features, please see Models & Packages and/or the Dealer Ordering Guide for availability.

Frame Strength Considerations

In considering frame strength, three major design criteria must be evaluated in order to make a correct frame selection.

1. The shape and dimensional characteristics (cross-section) of the frame. (Section Modulus)
2. The characteristics of the material used in construction of the frame. (Yield Strength)
3. The overall result of the shape, dimensional and material characteristics. (Resisting Bending Moment)

These three areas are discussed next with some important definitions.



$t = A–B = \frac{C–D}{2}$ = Flange Thickness

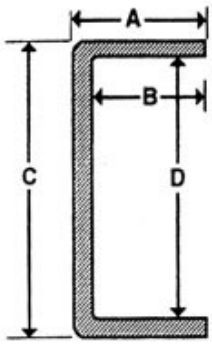
$SM = \frac{AC^3 – BD^3}{6C}$ = Section Modulus

RBM = Yield Strength x SM

1. Shape and Dimensional Characteristics

SM (Section Modulus) — A measure of frame strength and rigidity determined by the shape, thickness, flange width and depth of the side rails and reinforcements, if used (see figure).

Section Modulus is expressed in cubic inches (cu. in.). In comparing frames made of the same material, the frame with the greatest Section Modulus is the strongest.



$t = A–B = \frac{C–D}{2}$ = Flange Thickness

$SM = \frac{AC^3 – BD^3}{6C}$ = Section Modulus

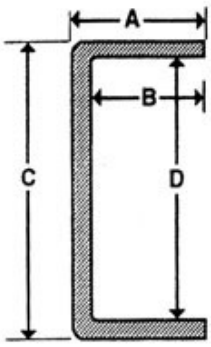
RBM = Yield Strength x SM

2. Material Characteristics

Yield Strength — The maximum load that can be applied to a material before permanent deformation occurs.

This means, in effect, the maximum load that will allow the material to return to its original shape after the load is removed. The Yield Strength of frames — expressed in pounds per square inch (psi) — is a characteristic of the materials used in their construction, e.g., carbon steel, high-tensile steel, etc.

Since Yield Strength is a measurement of the material characteristics, it is an assigned number that can be retrieved from a table. Typical frame Yield Strength ranges from 50,000 to 120,000 psi.



$t = A–B = \frac{C–D}{2}$ = Flange Thickness

$SM = \frac{AC^3 – BD^3}{6C}$ = Section Modulus

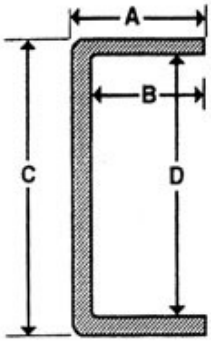
RBM = Yield Strength x SM

3. Combination of Shape, Dimensional and Material Characteristics

RBM (Resisting Bending Moment) — The maximum bending moment that a particular frame configuration can support without permanent deformation or failure.

It is a calculated value used to compare frames of differing composition and Section Modulus. It is obtained by multiplying Section Modulus by Yield Strength and is expressed in inch-pounds (in.-lbs.). In comparing frames made of unlike materials, the frame with the highest RBM has the most strength.

It should be noted that when a frame is constructed of two different materials, the lower Yield Strength is used to compute RBM.



$t = A–B = \frac{C–D}{2}$ = Flange Thickness

$SM = \frac{AC^3 – BD^3}{6C}$ = Section Modulus

RBM = Yield Strength x SM

Computing Frame Strength

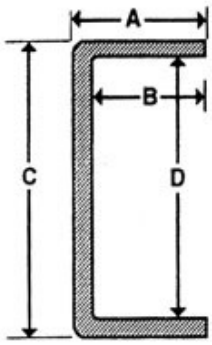
The formulas for Flange Thickness, Section Modulus and Resisting Bending Moment for a full "C" channel are to the right.

Dimensions Affecting Strength and Resisting Bending Moment

Section Modulus (SM) is not the complete measure of frame strength. Yield Strength of the material also needs to be factored in.

- Ford steel frames come in a variety of Yield Strengths ranging from 50,000 to 120,000 psi
- High-tensile strength frames (120,000 psi) are available to provide load support for more demanding applications without adding the additional weight of a reinforcement
- In some cases, the use of thicker, bulkier double-channel frames may interfere with the "packaging" of other equipment or components

- Remember that to obtain the overall measure of frame strength, it is necessary to multiply the Section Modulus by the Yield Strength. The resulting value, expressed in inch-pounds (in.-lbs.), is the Resisting Bending Moment (RBM). RBM is the best measure of comparing overall strength between different frames
- Frames need to be strongest where stress is concentrated. For example, in highway tractors this is typically near the centerline of the rear axle, or trunnion for tandem axle trucks, while in dump trucks it is just behind the cab
- Normally, stresses are much less at the ends of the frame compared to the span between front and rear axles
- This is why variable-depth frames are the correct choice for many applications; the frame is strong where it needs to be strong without needlessly adding cost and weight



$t = A–B = \frac{C–D}{2}$ = Flange Thickness

$SM = \frac{AC^3 – BD^3}{6C}$ = Section Modulus

RBM = Yield Strength x SM

2023 Medium Duty Chassis Cabs > Specs > Chassis

Front Axle Specifications

Regular/Super/Crew Cab Chassis Model		43A	43B	43C	43D
Manufacturer		Dana/Spicer®	Dana/Spicer	Dana/Spicer	Dana/Spicer
Max. Rating @ Ground (lbs.)		8,500	10,000	12,000	14,000
Axle	Type	I-Beam w/Kingpin Spindles	I-Beam w/Kingpin Spindles	I-Beam w/Kingpin Spindles	I-Beam w/Kingpin Spindles
	Material	Forged Steel	Forged Steel	Forged Steel	Forged Steel
	Spring Centers (in.)	35.0	35.0	35.0	35.0
Kingpins	Bushing Material	Bronze	Bronze	Bronze	Bronze
Spindle	Material	Steel	Steel	Steel	Steel
Wheel Bearings	Type	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller

2023 Medium Duty Chassis Cabs > Specs > Chassis

Hydraulic Brake Booster Specifications

Type	Model/Series	Mounting	Booster Stroke (in.)
Bosch/Hydromax II	All	To cowl with master cylinder	2.468

2023 Medium Duty Chassis Cabs > Specs > Chassis

Hydraulic Brake Equipment Specifications — Front/Rear Disc

Type	Axle (lbs.)	Rotor Dia. (in.) / OD Thickness	Lining Thickness (in.)	Caliper Piston No. Dia.	Lining Area Per Axle/Wheel (sq. in.)	Total Swept Area Per Axle (sq. in.)
Front	8,500	15.00 x 1.44	.49	4/70 mm (2.8")	41.7	41.7

	10,000/12,000/13,200	15.00 x 1.44	.74	4/70 mm (2.8")	41.7	41.7
Rear	15,500[1]	15.00 x 1.44	.49	4/70 mm (2.8")	41.7	83.4
	17,500/19,000/ 21,000/23,000	15.00 x 1.44	.74	4/70 mm (2.8")	41.7	83.4

(1) 4/64 mm on rear with 19.5" tire option.

2023 Medium Duty Chassis Cabs > Specs > Chassis

Hydraulic Brake Master Cylinder Specifications

Type	Model/Series	Piston Dia. (in.)	Stroke (in.)	Fluid Displacement Ratio (prim./sec.)	Nominal Displacement (prim./sec.) (cu. in.)
Dual System, Dash-mounted	All	2.00	2.25	50 Frt./50 Rr.	3.35/3.35

2023 Medium Duty Chassis Cabs > Specs > Chassis

Power Steering Pump Specifications

Engine	Manufacturer/Model	Reservoir Capacity (max.)	Pump Drive
All	ZF/Bosch ZN4	5.0L – 5.5L	Belt

2023 Medium Duty Chassis Cabs > Specs > Chassis

Rear Axle Specifications

Regular/Super/Crew Cab Chassis/Model		471	472	474	475
Make		Dana/Spicer®	Dana/Spicer	Dana/Spicer	Dana/Spicer
Max. Rating @ Ground (lbs.)		13,500	17,500	19,000	21,000
Type		Single	Single	Single	SIngle
Housing	Type	Fabricated	Fabricated	Fabricated	Fabricated
Lubricant Capacity (pts.)		19.0	19.0	19.0	27.9
Wheel Bearings	Type	Tapered	Tapered	Tapered	Tapered
Gears	Type	Hypoid	GenTech	GenTech	Hypoid
Ring Gear	Pitch Diameter (in.)	13.4	13.4	13.4	15.0
Differential	Type	Open	Open	Open	Open
Axle Shaft	Minimum Diameter (in.)	1.81	1.81	1.81	1.89
	No. of Splines (Hub End)	39	39	39	41

Regular/Super/Crew Cab Chassis/Model		476	477	479
Make		Dana/Spicer	Dana/Spicer	Dana/Spicer
Max. Rating @ Ground (lbs.)		21,000	21,000	23,000
Type		Single	2-speed	Single

Housing	Type	Fabricated	Fabricated	Fabricated
Lubricant Capacity (pts.)		27.9	35.1	37.0
Wheel Bearings	Type	Tapered	Tapered	Tapered
Gears	Type	Hypoid	Hypoid	Hypoid
Ring Gear	Pitch Diameter (in.)	15.0	17.0	17.7
Differential	Type	Driver Control — Locking	Open	Open
Axle Shaft	Minimum Diameter (in.)	1.89	1.87	2.06
	No. of Splines (Hub End)	41	41	46

Regular/Super/Crew Cab Chassis/Model		47P	47X
Make		Dana/Spicer	Dana/Spicer
Max. Rating @ Ground (lbs.)		23,000	26,000
Type		Single	Single
Housing	Type	Fabricated	Fabricated
Lubricant Capacity (pts.)		37.0	37.0
Wheel Bearings	Type	Tapered	Tapered
Gears	Type	Hypoid	Hypoid
Ring Gear	Pitch Diameter (in.)	17.7	18.5
Differential	Type	Driver Control — Locking	Open
Axle Shaft	Minimum Diameter (in.)	2.06	2.25
	No. of Splines (Hub End)	46	46

2023 Medium Duty Chassis Cabs > Specs > Chassis

Shock Absorber Specifications — Front Only

Model	Wheelbase (in.)	Usage	No. Used	Piston Dia. (in.)	Type
All	All	Std.	2	1.42	Double-acting

2023 Medium Duty Chassis Cabs > Specs > Chassis

Shock Absorber Specifications — Rear Only (with Air Suspension)

Model	Wheelbase (in.)	Usage	No. Used	Piston Dia. (in.)	Type
All	All	Std.	2	1.38	Double-acting
All	All	Std. High-Torque Application	2	1.63	Double-acting

2023 Medium Duty Chassis Cabs > Specs > Chassis

Shock Absorber Specifications — Rear Steel Suspension Only

Model	Wheelbase (in.)	Usage	No. Used	Piston Dia. (in.)	Type
All	All	Opt.	2	1.42	Double-acting

2023 Medium Duty Chassis Cabs > Specs > Chassis

Spring Specifications — Front Leaf

Series/Model	Combined Rating @ Ground (lbs.)	Number of Leaves	Total Thickness @ Pad (in.)	Active Length (in.) x Width (in.)	Deflection Rate (Installed) (lb./in.)
All	8,500	2	3.62	62.0 x 3.15	1,027
	10,000	2	3.58	62.0 x 3.15	1,147
	12,000	2	3.60	62.0 x 3.15	1,521
	13,200	3	3.60	62.0 x 3.15	1,593
	14,000	3	3.66	62.0 x 3.15	1,705

2023 Medium Duty Chassis Cabs > Specs > Chassis

Spring Specifications — Rear Leaf

Series/Model	Combined Rating @ Ground (lbs.)	No. of Leaves	Total Thickness @ Pad (in.)	Active Length (in.) x Width (in.)	Deflection Rate (Installed) (lb./in.)
F-650 Pro Loader	15,500	10	7.18	54.3 x 3.0	3540 (4990 Aux. Leaf Eng.)
All F-650	19,000	11	7.75	54.3 x 3.0	4026 (5476 Aux. Leaf Eng.)
F-650 with Straight Frame and All F-750	21,000	11	8.03	54.3 x 3.0	4743 (6193 Aux. Leaf Eng.)
All F-750	23,000	11	8.30	54.3 x 3.0	5290 (6740 Aux. Leaf Eng.)
	31,000	11	9.06	54.3 x 3.0	7810 (9260 Aux. Leaf Eng.)

2023 Medium Duty Chassis Cabs > Specs > Chassis

Steering Specifications

Cab Style	Wheelbase (in.)	8.5K Axle Turning Radius				10K/12K/14K Axle Turning Radius			
		To Curb		To Wall		To Curb		To Wall	
		ft.	in.	ft.	in.	ft.	in.	ft.	in.
Regular Cab	146	20	9	22	4	20	6	22	1
	158	22	3	23	10	21	11	23	7
	176	24	5	26	1	24	2	25	9
	182	25	2	26	9	24	10	26	6
	194	26	8	28	3	26	4	27	11
	200	27	5	29	0	27	0	28	8
	212	28	1	29	9	28	1	29	9

	218	28	10	30	6	28	10	30	6
	224	29	7	31	2	29	7	31	2
	230	30	3	31	11	30	3	31	11
	242	31	8	33	4	31	8	33	4
	260	33	10	35	6	33	10	35	6
	281	36	4	38	0	36	4	38	0
SuperCab	167	23	4	24	11	23	1	24	8
	179	24	10	26	5	24	6	26	1
	197	27	0	28	8	26	8	28	3
	203	27	1	28	8	27	1	28	8
	215	28	6	30	1	28	6	30	1
	221	29	2	30	10	29	2	30	10
	233	30	8	32	3	30	8	32	3
	239	31	4	33	0	31	4	33	0
	245	32	1	33	8	32	1	33	8
	251	32	9	34	5	32	3	34	5
	263	34	3	35	10	34	3	35	10
	281	36	4	38	0	36	4	38	0
Crew Cab	182	25	2	26	9	24	10	26	6
	194	26	8	28	3	26	4	27	11
	212	28	1	29	9	28	1	29	9
	218	28	10	30	6	28	10	30	6
	230	30	3	31	11	30	3	31	11
	236	31	0	32	7	31	0	32	7
	248	32	5	34	1	32	5	34	1
	254	33	2	34	9	33	2	34	9
	260	33	10	35	6	33	10	35	6
	266	34	7	36	3	34	7	36	3
	278	36	0	37	8	36	0	37	8

Tire Specifications — 19.5" Wheel Configurations

		Max. Tire and Wheel Capacity per Axle (lb.) @ psi	
Size	**Wheel Width (in.) and Type**	**Front**	**Rear**
245/70R19.5G	6.75, 8-stud steel	9,080 @ 110	17,200 @ 110
	7.50, 10-stud steel	9,080 @ 110	17,200 @ 110
	7.50, 10-stud aluminum	9,080 @ 110	17,200 @ 110
245/70R19.5H	6.75, 8-stud steel	9,880 @ 115	18,700 @ 115
	7.50, 10-stud steel	9,880 @ 115	18,700 @ 115

	7.50, 10-stud aluminum	9,880 @ 115	18,700 @ 115
265/70R19.5G	6.75, 8-stud steel	10,140 @ 110	18,700 @ 110
	7.50, 10-stud steel	10,140 @ 110	18,700 @ 110
	7.50, 10-stud aluminum	10,140 @ 110	18,700 @ 110

NOTE: Some tires may be discontinued or require substitution. Refer to Commercial Vehicle Tools (CVT) for current availability.

2023 Medium Duty Chassis Cabs > Specs > Chassis

Tire Specifications — 22.5" Wheel Configurations

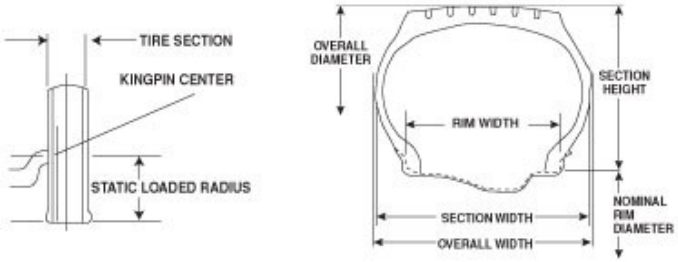
Size	Wheel Width (in.) and Type	Max. Tire and Wheel Capacity per Axle (lb.) @ psi	
		Front	Rear
11R22.5G	7.50, 10-stud steel	12,350 @ 105	23,360 @ 105
	8.25, 10-stud steel	12,350 @ 105	23,360 @ 105
	8.25, 10-stud aluminum	12,350 @ 105	23,360 @ 105
11R22.5H	7.50, 10-stud steel	13,220 @ 120	24,020 @ 120
	8.25, 10-stud steel	13,220 @ 120	24,020 @ 120
	8.25, 10-stud aluminum	13,220 @ 120	24,020 @ 120
255/70R22.5H	7.50, 10-stud steel	11,020 @ 120	20,280 @ 120
	8.25, 10-stud steel	11,020 @ 120	20,280 @ 120
	8.25, 10-stud aluminum	11,020 @ 120	20,280 @ 120
275/80R22.5G	7.50, 10-stud steel	12,350 @ 110	22,700 @ 110
	8.25, 10-stud steel	12,350 @ 110	22,700 @ 110
	8.25, 10-stud aluminum	12,350 @ 110	22,700 @ 110
275/80R22.5H	7.50, 10-stud steel	14,330 @ 120	26,455 @ 120
	8.25, 10-stud steel	14,330 @ 120	26,455 @ 120
	8.25, 10-stud aluminum	14,330 @ 120	26,455 @ 120
295/80R22.5H	7.50, 10-stud steel	15,660 @ 120	27,760 @ 120
	8.25, 10-stud steel	15,660 @ 120	27,760 @ 120
	8.25, 10-stud aluminum	15,660 @ 120	27,760 @ 120

NOTE: Some tires may be discontinued or require substitution. Refer to Commercial Vehicle Tools (CVT) for current availability.

2023 Medium Duty Chassis Cabs > Specs > Chassis > Tire Terminology

Aspect Ratio

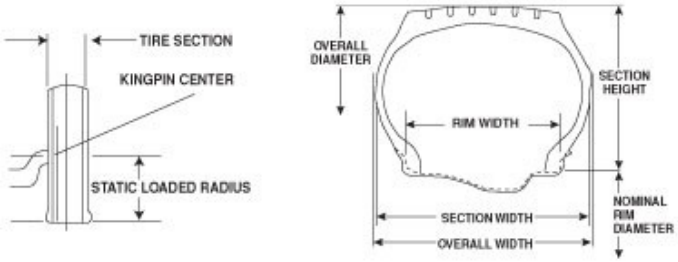
Defined as: Section Height divided by Section Width.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Minimum Dual Spacing

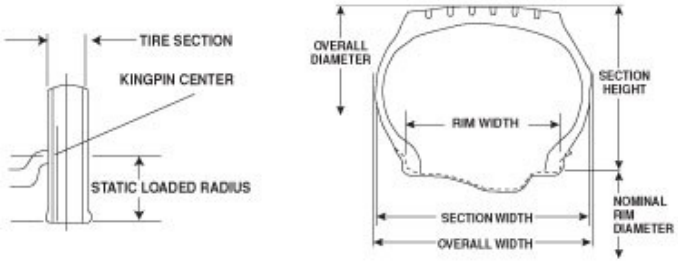
Minimum dual tire centerline to centerline measurement.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

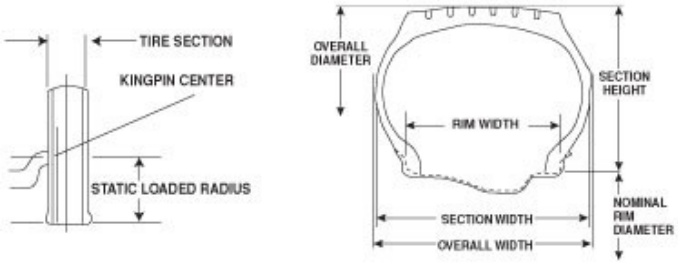
Overall Diameter

Diameter of an inflated tire at the outermost surface of the tread, including 24-hour inflation growth.



Revolutions per Mile

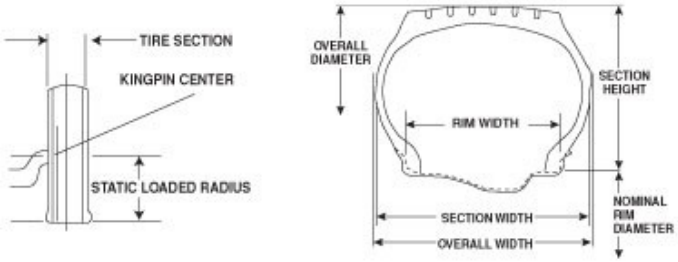
Measured number of revolutions for a tire traveling one mile. This can vary with speed, load and inflation.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Rim Width

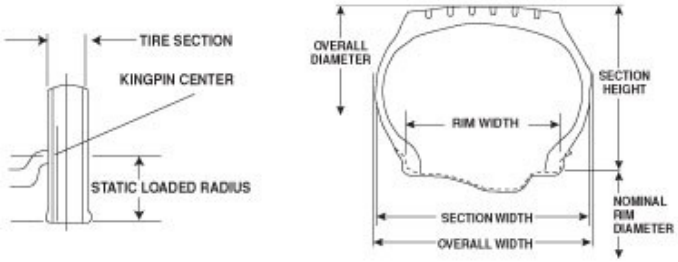
Linear distance between the flanges of the rim.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Section Height

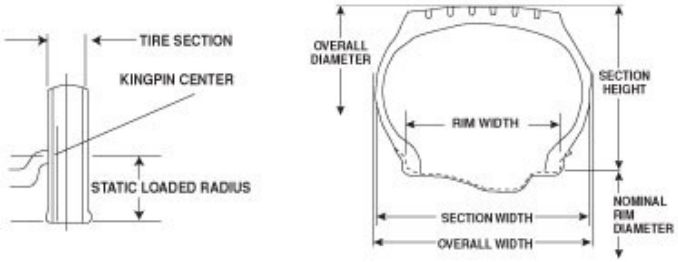
Half the difference between the overall diameter and the nominal rim diameter.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Size Factor

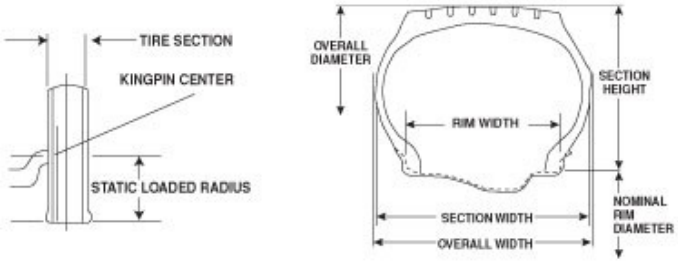
Sum of the tire width and overall diameter of an inflated tire.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

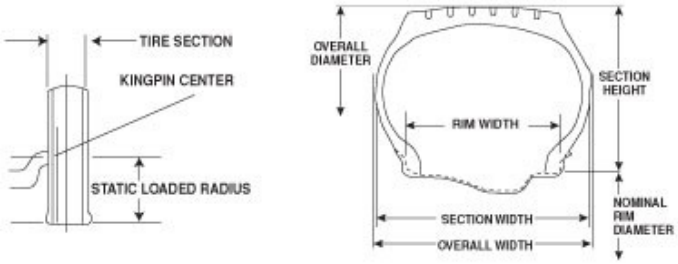
Static Loaded Radius

Distance from wheel axle centerline to supporting tread surface at a given load and inflation pressure in a static condition.



Tire (Overall) Width

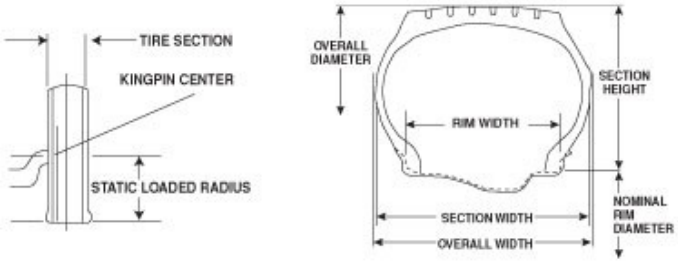
Width of a new tire, including 24-hour inflation growth, and including protective side ribs, bars and decorations.



2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Tire Section

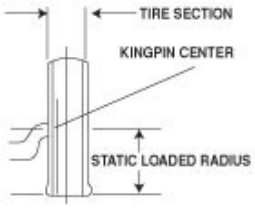
Linear distance between outside of sidewalls of inflated tire, exclusive of decorations, markings or borders.

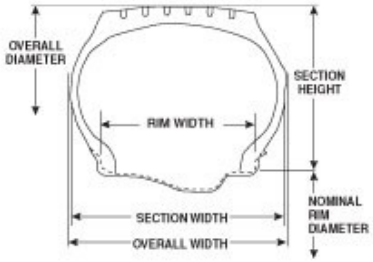


2023 Medium Duty Chassis Cabs > **Specs** > **Chassis** > Tire Terminology

Tread Width

Distance across tread from shoulder to shoulder.

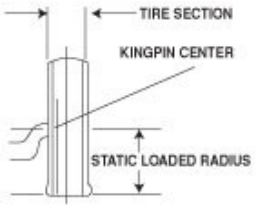


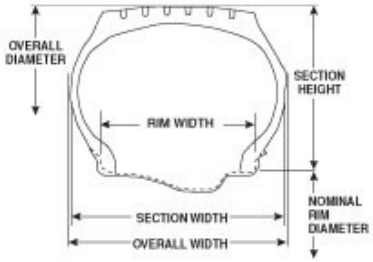


2023 Medium Duty Chassis Cabs > Specs > Chassis > Tire Terminology

Width Loaded

Tire width (overall) under rated load conditions.





2023 Medium Duty Chassis Cabs > Specs > Chassis

Wheel Specifications

Wheel Type	Position	Wheel Size	No. of Studs	Bolt Circle mm (in.)
Steel, Powder-Coated White	Front	19.5" x 6.75"	8	275 (10.83)
Steel, Powder-Coated White	Rear	19.5" x 6.75"	8	275 (10.83)
Steel, Powder-Coated White	Front	19.5" x 7.50"	10	285.5 (11.25)
Steel, Powder-Coated White	Rear	19.5" x 7.50"	10	285.5 (11.25)
Aluminum, Bright Polished	Front	19.5" x 7.50"	10	285.5 (11.25)
Aluminum, Bright Polished	Rear	19.5" x 7.50"	10	285.5 (11.25)
Steel, Powder-Coated White	Front	22.5" x 7.50"	10	285.5 (11.25)
Steel, Powder-Coated White	Rear	22.5" x 7.50"	10	285.5 (11.25)
Steel, Powder-Coated White	Front	22.5" x 8.25"	10	285.5 (11.25)
Steel, Powder-Coated White	Rear	22.5" x 8.25"	10	285.5 (11.25)

Aluminum, Bright Polished	Front	22.5" x 8.25"	10	285.5 (11.25)
Aluminum, Bright Polished	Rear	22.5" x 8.25"	10	285.5 (11.25)

2023 Medium Duty Chassis Cabs > Specs > Chassis

Windshield Wipers

Make	Arm Length	Blade Length
Trico	22.25"	19.0"

2023 Medium Duty Chassis Cabs > Specs

Electrical

200/157 Amperes Alternator (DUAL)
210 Amperes Alternator
240 Amperes Alternator
Alternator Specifications
Battery Applications
Cold Weather Recommendations
Dual Heavy-Duty 397 Amperes Alternator
Light Specifications and Usage
Standard Lighting/Reflector Equipment
Trailer Tow Cable
Trailer Towing Wiring Harness

2023 Medium Duty Chassis Cabs > Specs > Electrical

Alternator Specifications

Alternator (Integral Regulator Type)	Alternator Output (Amperes)		Alternator Operating Specifications			
	Idle	Maximum	Rated Output (Watts)	Cut-In (rpm)(1)	Maximum Output Speed (rpm)(2)	Drive
157-Amp Denso (Straddle Mount)	See Output Curves	See Output Curves	2,100	1,100	20,000	Belt
200-Amp Denso (Straddle Mount)	See Output Curves	See Output Curves	2,700	1,100	20,000	Belt
210 Amp. Mitsubishi GX9-21 (Straddle Mount)	See Output Curves	See Output Curves	2,800	1,200	18,000	Belt
240-Amp (Axial Mount)	See Output Curves	See Output Curves	2,900	1,300	—	Belt

(1) Alternator rpm, not engine rpm.

(2) Short run rpm rating. Maximum rpm for continuous run is 18,000.

2023 Medium Duty Chassis Cabs > Specs > Electrical > Alternator Performance Curves

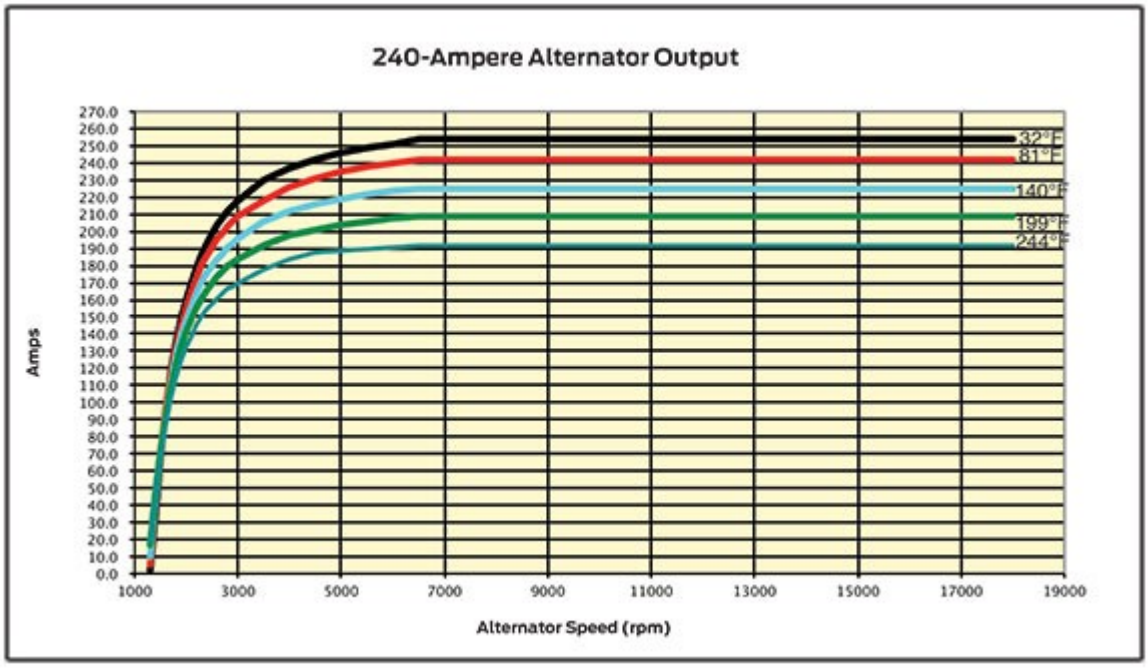
210 Amperes Alternator

Engine	Pulley Ratio	Model Application
7.3L PFI Gas V8	3.03:1	F-650/F-750 Medium Duty

2023 Medium Duty Chassis Cabs > **Specs** > **Electrical** > Alternator Performance Curves

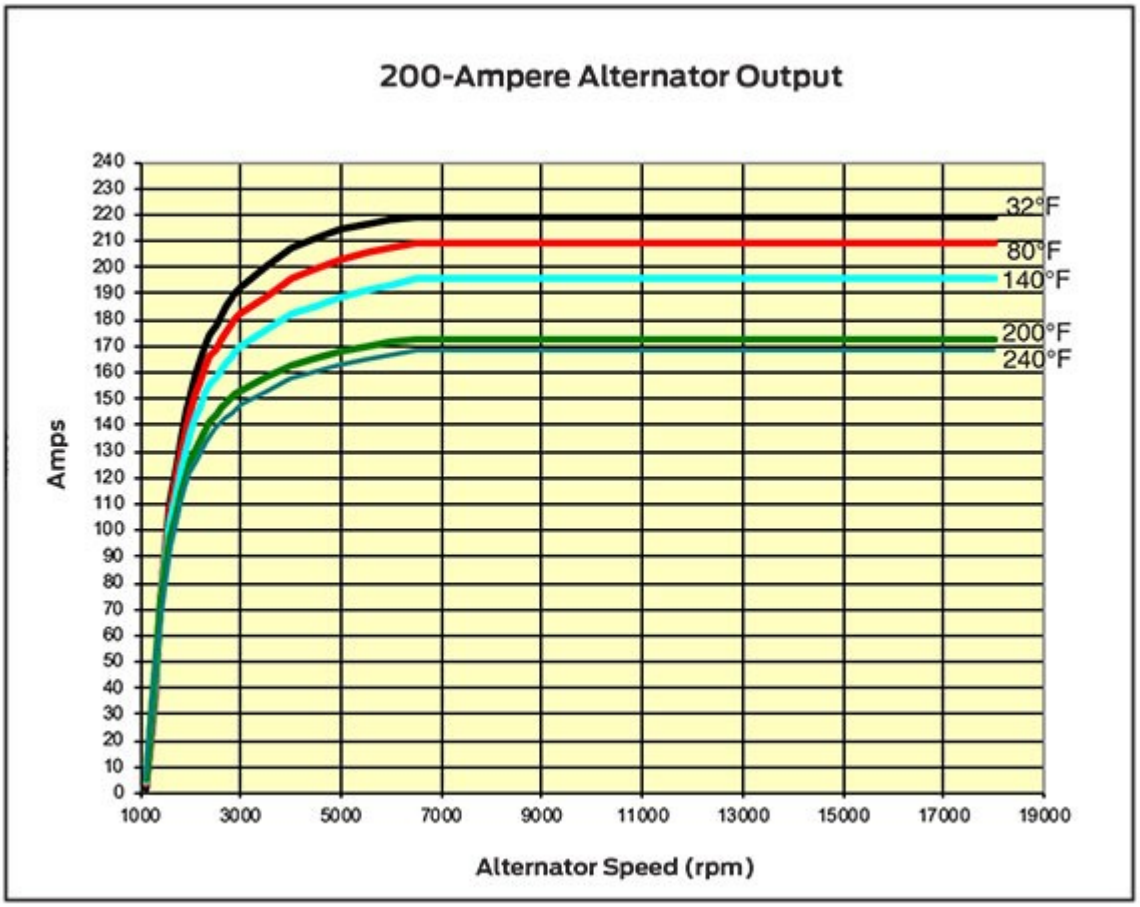
240 Amperes Alternator

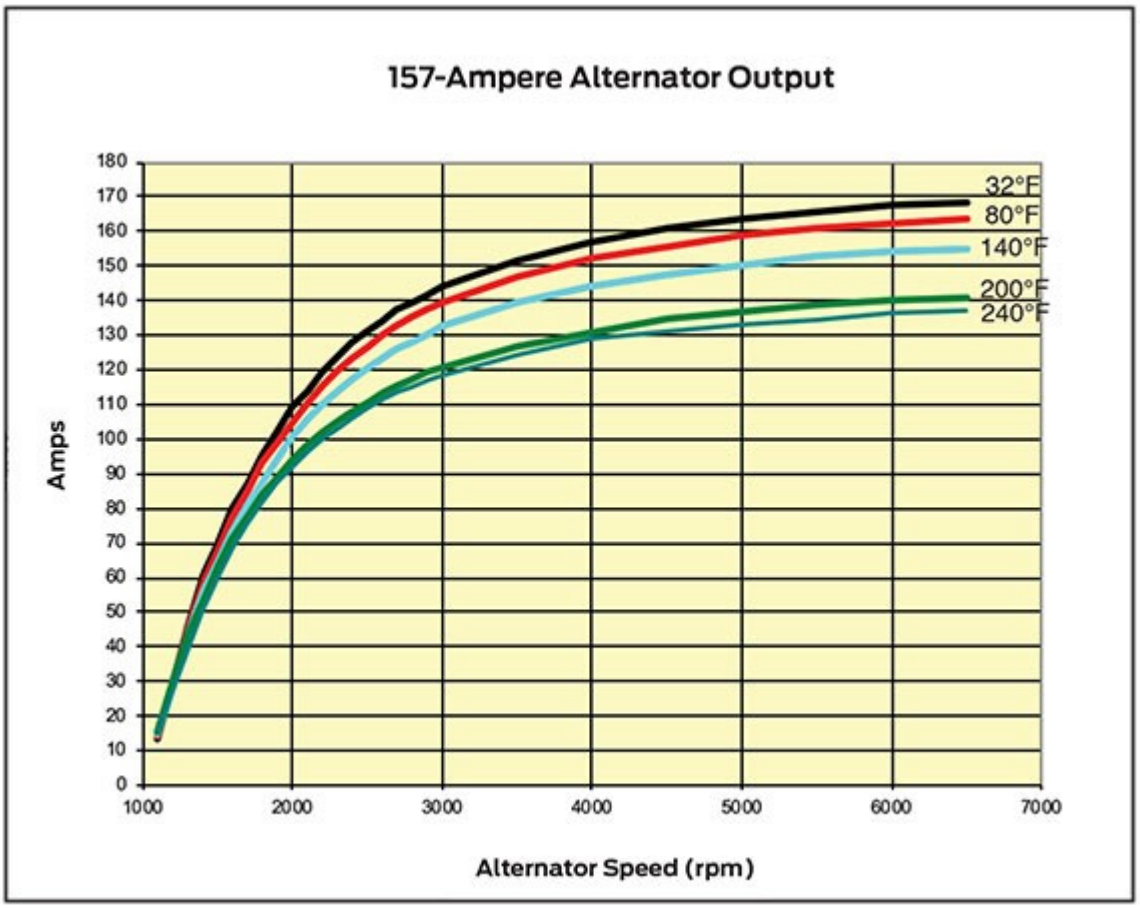
Engine	Pulley Ratio	Model Application
7.3L PFI Gas V8	3.03:1 (gas)	F-650/F-750 Medium Duty
6.7L Power Stroke V8 Turbo Diesel	3.09:1 (diesel)	



200/157 Amperes Alternator (DUAL)

Engine	Pulley Ratio	Model Application
7.3L PFI Gas V8	2.83:1 (gas secondary)	F-650/F-750 Medium Duty
6.7L Power Stroke V8 Turbo Diesel	3.09:1 (primary) 2.78:1 (diesel secondary)	





2023 Medium Duty Chassis Cabs > Specs > Electrical > Alternator Performance Curves

Dual Heavy-Duty 397 Amperes Alternator

Engine	Pulley Ratio	Model Application
7.3L PFI Gas V8	3.03:1	F-650/F-750 Medium Duty

2023 Medium Duty Chassis Cabs > Specs > Electrical

Battery Applications

Ampere-Hour Rating	90	100
Cold-Cranking Amps at 0° F	750	900
F-650/F-750 Medium Duty		
6.7L Power Stroke V8 Turbo Diesel	Std.(1)	Opt.(2) Opt.(3)
7.3L PFI Gas V8		Std. Opt.(2)

(1) Dual batteries — 1,500 CCA.

(2) Dual batteries — 1,800 CCA.

(3) Three batteries — 2,700 CCA.

2023 Medium Duty Chassis Cabs > Specs > Electrical

Cold Weather Recommendations

Minimum Temperature	Equipment	
	HD Battery	Engine Block Heater
0° F	Suggested	Not Needed
-10° F	Recommended	Suggested
-20° F	Recommended	Recommended
Below -20° F	Strongly Recommended	Strongly Recommended

DEFINITIONS

Suggested: Helpful, but not needed.

Recommended: Could improve reliability in less-than-ideal conditions.

Strongly Recommended: Will give definite improvement over the standard components.

HD Battery: Higher-capacity battery available. (Usage varies by model.)

Engine Block Heater: Available equipment for all engines. (Usage and heater capacity vary with engine requirements.)

2023 Medium Duty Chassis Cabs > Specs > Electrical

Standard Lighting/Reflector Equipment

Light Reflector	Application
Headlamps (Halogen)	All Series — Two Replaceable Bulbs with All Models
Parking Lamps	All Series — Integral with Turn Signals
Front/Rear Turn Signals	All Series
Front Side Marker Lamps	All Series
Front Side Reflectors	All Series
Rear Side Reflectors	All Series
Front Cab Clearance and Identification Lamps — 5 Amber	F-Series Dual Rear Wheel Models, F-650/F-750
Rear Side Marker Lamps	All Series — Integral with Taillamps
License Plate Lamps	All Series
Two Combination Taillamps with Integral Stop, Turn Signal and Backup Lamps and Reflective Surface	All Series
Rear Reflectors	All Series
Front Daytime Running Lamps	All Vehicles Registered in Canada

2023 Medium Duty Chassis Cabs > Specs > Electrical

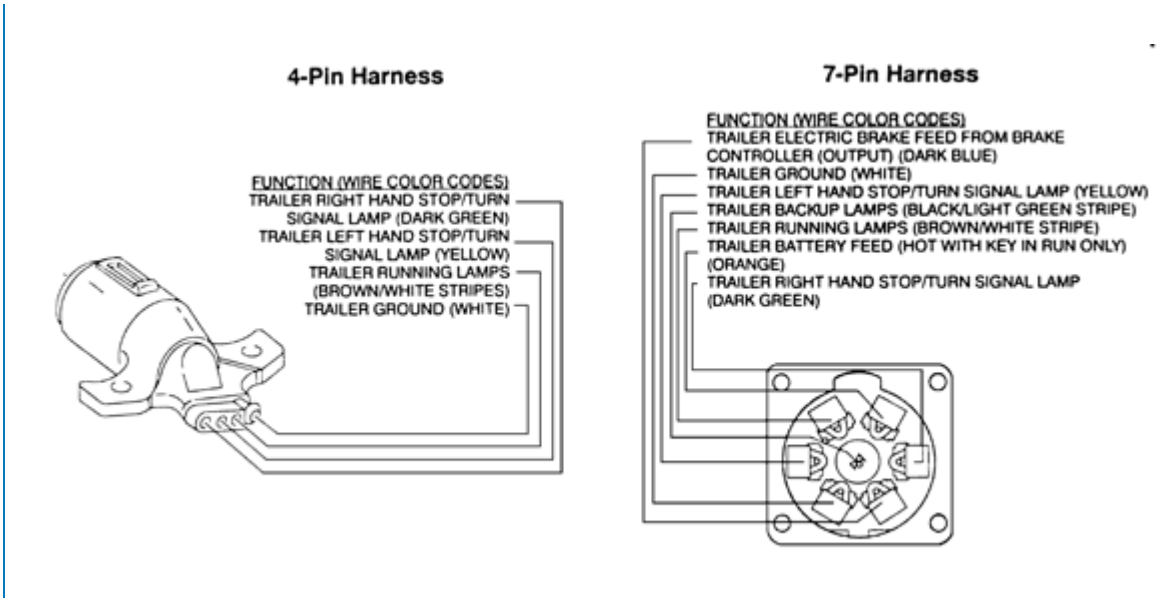
Light Specifications and Usage

Lamp	Code	Description	Usage
Cab Marker — (5 lights) Amber	STD	Torpedo, Hella	All Model Series
Daytime Running Lamps	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in Canada
Headlamps	STD	(2) Replaceable Bulbs, Halogen	All Vehicles Registered in U.S. and Canada

2023 Medium Duty Chassis Cabs > Specs > Electrical

Trailer Towing Wiring Harness

Circuit Number	Circuit Description	Color Code
RAT08	Ground	White
CAT17	Parking Lamps	Brown
CAT14	Trailer Battery Feed	Orange
CAT19	To Electric Brakes	Dark Blue
CAT09	RH Turn Signal and Stop Lamps	Dark Green
CAT06	LH Turn Signal and Stop Lamps	Yellow
CAT03/CAT16	Trailer Backup Lamps	Gray with Brown Stripe
CBP30	Front Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Blue Stripe
CBP40	Rear Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Green Stripe
CLS30	Brake Controller Running Lamp Feed/Park Lamp Feed	Violet with White Stripe
CCB08	Vehicle Stop Lamps	Violet with White Stripe
SBB18/SBB17	B+ to Electric Brake Controller	Yellow with Red Stripe


4-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPES)
TRAILER GROUND (WHITE)
7-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER ELECTRIC BRAKE FEED FROM BRAKE CONTROLLER (OUTPUT) (DARK BLUE)
TRAILER GROUND (WHITE)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER BACKUP LAMPS (BLACK/LIGHT GREEN STRIPE)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPE)
TRAILER BATTERY FEED (HOT WITH KEY IN RUN ONLY) (ORANGE)
TRAILER RIGHT HAND STOP/TURN SIGNAL LAMP (DARK GREEN)

2023 Medium Duty Chassis Cabs > Specs > Electrical

Trailer Tow Cable

Circuit Description	Location	Max. Fuse Size (Amp.)	Load by Body Builder	Type	Harness	Circuit No.	Circuit Color	Circuit Gauge	Recommended Insulation

Ground	—	—	—	—	PTO8-54297(1)	206	WH	10	BX
Rear Taillamp	SPDJB#22/40	15/10	10(2)	Mini	PTO8-54297(1)	CLS30/CBP40	VT-WH/YE-GR	14	BX
LH Stop/Turn	SPDJB#6/14	20/15	10(3)	Mini	PTO8-54297(1)	CLS18	GY-BN	16	BX
RH Stop/Turn	SPDJB#6/13	20/15	10(3)	Mini	PTO8-54297(1)	CLS19	VT-OG	16	BX
Stop	PDB#30	10	7	Mini	PTO8-54297(1)	CCB08	VT-WH	20	BX
Stop	SPDJ31	5	7	Mini	PTO8-54297(1)	CCB08	VT-WH	20	BX
Side Marker	SPDJB#22/30	15	10(2)	Mini	PTO8-54297(1)	CLS30/CBP30	VT-WH/YE-BL	18	BX
ABS Feed (Run Only)	PDB#53/54	10/5	7	Mini (Low-Profile)	PTO8-54292	CBB53/CBB54	GY-BN/VT-OR	20	BX

(1) The proper harness can be determined by looking at PTO8-54297 for PDB information, PTO8-54149 for back of cab and PTO8-54150 for end of frame.

(2) Sum of loads for side marker and taillamps not to exceed 21 amps.

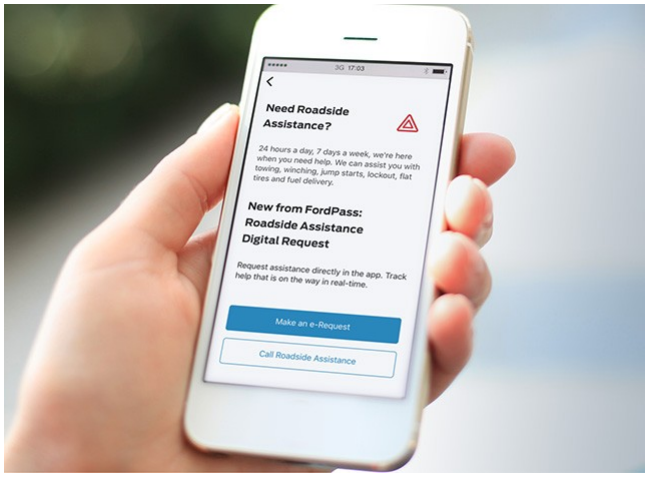
(3) Sum of loads for side LH stop/turn and RH stop/turn lamps not to exceed 21 amps.

2023 Medium Duty Chassis Cabs > Specs

Warranties

24-HOUR ROADSIDE ASSISTANCE(1)

- Owners can call the toll-free number (1-800-241-3673) 24 hours a day
- Customers can also use their FordPass(2) App:
  - Tap the red Hazard icon at the top of the screen
  - Tap the Make an e-Request button
  - Follow the prompts, which allow owners to identify the type of service they need
  - Owners can follow real-time progress of their request on the FordPass map
- Services available include flat tire change, towing to the nearest Ford dealership, fuel delivery, jump start and lockout assistance
- The FordPass App also offers a link to Accident Assistance under Vehicle Details/Vehicle Support
  - Accident Assistance includes information on what to do in an accident and about collision repairs
  - It also provides a collision shop locator that identifies the nearest Ford Certified Collision Center


Need Roadside Assistance?
24 hours a day, 7 days a week, we're here when you need help. We can assist you with towing, winching, jump starts, lockout, flat tires and fuel delivery.
New from FordPass: Roadside Assistance Digital Request
Request assistance directly in the app. Track help that is on the way in real-time.
Make an e-Request
Call Roadside Assistance

POWERTRAIN LIMITED WARRANTY

- Powertrain Limited Warranty for Ford vehicles is 5 years or 100,000 miles for the gas engine (whichever comes first) and 5 years or 250,000 miles (whichever comes first) for the diesel engine
- That's an additional 2 years/64,000 miles of coverage for gas the engine and 2 years/214,000 miles of coverage for the diesel engine for components such as the engine, transmission and rear-wheel-drive parts (refer to the vehicle Owner's Manual for a more comprehensive list of all the parts covered) beyond the vehicle's 3-year/36,000-mile bumper-to-bumper limited warranty

NEW VEHICLE LIMITED WARRANTIES

- 3-year/36,000-mile bumper-to-bumper; no deductible
- 5-year/100,000-mile Powertrain Limited Warranty for the gas engine
- 5-year/250,000-mile Powertrain Limited Warranty for the diesel engine
- 5-year/unlimited-mileage Corrosion Perforation (aluminum panels don't require perforation)
- 5-year/60,000-mile Safety Restraint Warranty

POWER STROKE DIESEL ENGINE COVERAGE

- Lasts for 5 years or 100,000 miles, whichever occurs first, on certain Power Stroke-specific powertrain components

- Key components covered under this warranty include:
  - The engine, cylinder block, heads and all internal parts
  - Intake and exhaust manifolds
  - Timing gear
  - Harmonic balancer
  - Valve covers
  - Oil pan and pump
  - Water pump
  - Fuel system (excluding fuel lines, fuel tank and frame-mounted fuel conditioning module sometimes referred to as the frame-mounted pump/filter/water separator or frame-mounted fuel filter/water separator)
  - High-pressure lines, gaskets and seals
  - Glow plugs
  - Turbocharger
  - Two-stage turbocharger assembly
  - Turbocharger actuator
  - Powertrain control module
  - High-pressure fuel injection pump assembly
  - Injectors
  - Injection pressure sensor
  - Fuel rail pressure sensor
  - Exhaust back pressure regulator and sensor
  - Exhaust pressure sensor
  - Manifold pressure sensor
  - Intake air temperature sensor
  - Crankshaft position sensor
  - Camshaft position sensor
  - Accelerator switch

(1) Roadside Assistance is included for certain owners and available to everyone for a per-service fee. Ford reserves the right to change program details without obligations. Ford Roadside Assistance is a complimentary offering to all Ford owners for up to 5 years or 60,000 miles (from the date of sale), whichever occurs first. Ford reserves the right to change program details without obligations.

(2) FordPass, compatible with select smartphone platforms, is available via a download. Message and data rates may apply.

NOTE: See dealer for limited warranty details.

NOTE: See **www.motorcraftservice.com** for a link to a printable PDF of the Warranty Guide.